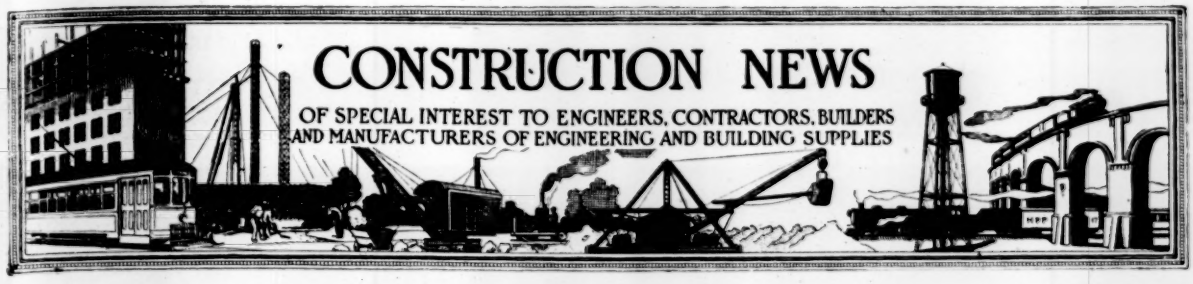
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Are Prices Too High?

What may be expected in the price situation next Spring certainly cannot be determined by guesswork. There are manufacturers and others who believe that prices of construction materials should stay at the present levels. There are others who believe prices should come down, but that they will not come down until the cost of labor drops. The reply to the latter is that it is unlikely that labor can be made cheaper until the cost of living lowers. All this is simply a wheel of talk, no beginning and no end.

To reach some reliable conclusions, it would seem that the first thing to do is to study the past—on which all prophecy and estimating are based. In this way, it may be learned from a mechanical standpoint whether prices of construction materials ought or ought not be lowered.

The one thing above all others that would bring prosperity to the engineering and contracting profession is lots of work, and therefore plenty of employment for labor, in the Spring of this year. One way toward bringing about this desired condition is to adjust prices to a reasonable level. Now we come to the question: What is a reasonable price schedule for the Spring of 1919? One has answered in this way: Would not a reasonable schedule for the the Spring of 1919 be in most instances the average Spring prices from 1913 to 1918 inclusive?

Table I herewith shows the range on eleven materials in New York City. Only figures for April, May and June, 1913 to 1918, with the Spring average prices for each year, are given. No particular comment should be necessary, for the table shows very clearly what has happened. Every price climbed more or less steadily, descending only by Government regulation, and now with general conditions settling in the direction of normality, remains at or near the peak.

These eleven materials are treated further in Table II. Here are listed the average prices for the Spring of 1914—just prior to the European War. These are compared with the average of the Spring prices of the past six years, the results being listed in the third column. Corresponding quotations on Jan. 1, 1919, are compared with the average prices of the preceding six years, showing considerable advance. Throughout the six years to July 1, 1918, the average advance of the eleven materials was 50% over the schedule on June 1, 1914. From June 1, 1918, to Jan. 1, 1919, the average advance was 70%, making a total average price increase on these eleven representative construction materials of 120%.

This heavy price appreciation is due in a large part to the increased cost of labor and freight—though in the past six years freight rates increased only 41%. Fair prices must and will be maintained, but prices which are not fair will not stimulate construction work. It should be obvious to everyone that the mere fact of high prices does not necessarily mean prosperity. It may even mean stagnation.

TABLE I. SPRING PRICES IN NEW YORK FOR THE PAST SIX YEARS—THEIR RISE

	Portland Cement (per bbl., with sacks)	Common Brick (per M.)	Crushed Stone (per cu.yd.—¾ in.)	Sand (per cu.yd.)	Gravel (per cu.yd.—¾-in.)	C.-I. Pipe (6-inch—per ton)	Beams and Channels (3—15-inch per 100 lb.)	Plates per 100 lb.	Hollow Tile (6x12x12) per block	Linseed Oil (raw in barrels)	Freight to Pittsburgh on Steel (per 100 lb.)
April, 1913	$1.58	$7.00	$0.90	$0.50	$0.85	$24.00	$2.15	$1.61	$0.084*	$0.48	$0.16
May, 1913	1.58	7.00	.90	.50	.85	23.50	2.15	1.61	.084*	.50	.16
June, 1913	1.58	7.00	.90	.50	.85	23.00	2.15	1.61	.084*	.48	.16
Average	$1.58	$7.00	$0.90	$0.50	$0.85	$23.50	$2.15	$1.61	$0.084*	$0.49	$0.16
April, 1914	$1.58	$5.50	$0.95	$0.50	$0.90	$22.00	$1.95	$1.31	$0.084*	$0.54	$0.16
May, 1914	1.58	5.50	.95	.50	.90	22.00	1.85	1.31	.084*	.54	.16
June, 1914	1.58	5.60	.95	.50	.90	20.50	1.85	1.31	.084*	.53	.16
Average	$1.58	$5.55	$0.95	$0.50	$0.90	$21.50	$1.85	$1.31	$0.084*	$0.54	$0.16
April, 1915	$1.22	$5.50	$0.90	.....	$0.85	$20.00	$1.90	$1.36	.....	.....	$0.169
May, 1915	1.22	5.75	1.05	.....	.85	20.50	1.90	1.32	.....	.....	.169
June, 1915	1.22	6.00	1.05	.....	.85	22.00	1.90	1.37	.....	.....	.169
Average	$1.22	$5.75	$1.00	.....	$0.85	$20.75	$1.90	$1.35	.....	.....	$0.169
April, 1916	$1.72	$8.50	$0.95	$0.40	$0.80	$30.50	$2.50	$2.50	$0.08½	$0.81	$0.169
May, 1916	1.72	7.25	.95	.40	.85	.....	2.50	2.65	.08½	.81	.169
June, 1916	1.72	8.00	.95	.50	1.00	.....	2.60	2.75	.08½	.....	.169
Average	$1.75	$7.90	$0.95	$0.45	$0.90	.....	$2.55	$2.65	$0.08½	$0.81	$0.169
April, 1917	$2.12	$9.50	$1.20	$0.50	$1.25	$47.50	$3.75	$5.00	$0.13	$1.04	$0.169
May, 1917	2.40	11.50	1.25	.50	1.35	55.50	3.80	5.50	.13	1.21	.169
June, 1917	2.40	10.25	1.25	.50	1.25	55.50	5.00	7.00	.13	1.31	.169
Average	$2.40	$10.40	$1.25	$0.50	$1.30	$51.70	$4.15	$5.80	$0.13	$1.19	$0.169
April, 1918	$2.59	$10.25	$1.75	$1.25	$2.00	$55.35	$4.20	$4.45	$0.14*	$1.55	$0.195
May, 1918	2.59	10.00	1.75	1.25	2.00	55.35	4.20	4.45	.14*	1.55	.195
June, 1918	2.59	10.25	1.75	1.25	2.00	61.35	4.20	4.45	.14*	1.58	.195
Average	$2.59	$10.15	$1.75	$1.25	$2.00	$57.35	$4.20	$4.45	$0.14*	$1.56	$0.195
General average	1.85	7.80	1.30	.60	1.15	35.00	2.80	2.86	.112*	.92	.17
January, 1919	3.40	14.00	1.85	1.25	2.00	67.70	4.27	4.52	.159*	1.59	.23

* These hollow-tile quotations f.o.b. works, Perth Amboy, N. J.

TABLE II. SHOWING AVERAGE PRICE ADVANCE AND EXTRAORDINARY INCREASE IN LAST HALF OF 1918

Material	Average Spring Prices, 1914	General Average Spring Prices, 1913 to 1918	Average Increase in Per Cent.	January, 1919, Prices	Per Cent. Increase over General Average of Spring Prices, 1913-18
Portland cement (per bbl. with bags)	$1.58	$1.85	17	$3.40	83
Common brick (per M.)	5.55	7.80	40	14.00	80
Crushed stone ¾-in. (per cu.yd.)	.95	1.30	37	1.85	42
Sand, per cu.yd	.50	.60	20	1.25	100
Gravel, ¾-in. (per cu.yd.)	.90	1.15	28	2.00	120
Hollow tile building, 6x12x12, per block, Perth Amboy	.084	.112	33	.159	42
C.-I. Pipe, 6-in., per ton	21.50	35.00	63	67.70	91
Beams and channels, 3 to 15 in., per 100 lb.	1.85	2.80	54	4.27	52
Plates (per 100 lb.)	1.31	2.86	119	4.52	58
Linseed oil, raw (per gal.)	.54	.92	70	1.59	62
Freight, New York to Pittsburgh, on steel	.16	.17	6	.23	35
General advance in per cent.			50		70

PROPOSALS

For Proposals Advertised See Page 67

WATER-WORKS

Bids Close		See Eng. News-Record
Jan. 31	Poteau, Okla. Adv. Dec. 19 and 26.	Dec. 26
Jan. 31	Bradentown, Fla.	Jan. 16
Feb. 3	Maple Heights, O.	Jan. 16

SEWERS

Feb. 5	Portvue, Pa.	Jan. 16

BRIDGES

Jan. 22	Ft. Smith, Ark. Adv. Jan. 2 and 9.	Jan. 2
Jan. 27	Fallon, Nev.	Jan. 9
Jan. 27	Winnemucca, Nev.	Jan. 9
Feb. 3	Charlotte Harbor, Fla. Adv. Dec. 19, 26, Jan. 2 and 9.	Jan. 2

STREETS AND ROADS

Jan. 20	Miami, Okla.	Jan. 16
Jan. 20	Oswego, Kan.	Jan. 2
Jan. 21	Charleston, S. C. Adv. Jan. 2 and 9.	Jan. 9
Jan. 24	Topeka, Kan.	Jan. 2
Jan. 25	Belton, Mo.	Jan. 16
Jan. 27	Louisiana	Jan. 16
Jan. 27	Nevada	Jan. 9
Jan. 31	Ohio	Jan. 16
Feb. 3	Wichita, Kan.	Jan. 9
Feb. 5	Indiana	Jan. 9
Feb. 10	Fayetteville, W. Va.	Jan. 16
Feb. 11	Moulton, Ala.	Jan. 16

EXCAVATION AND DREDGING

Jan. 21	El Centro, Cal.	Jan. 9
Jan. 27	Madison, S. D.	Jan. 9
Feb. 3	Madisonville, Ky. Adv. Dec. 5, 12 and 19.	Dec. 12

INDUSTRIAL WORKS

Jan. 28	New York, N. Y.	Jan. 9
Mar. 4	Thiells, N. Y.	Jan. 16
Apr. 1	Sioux City, Ia.	Jan. 16

BUILDINGS

Jan. 20	Hartford, Conn.	Jan. 9
Jan. 23	Detroit, Mich.	Jan. 16
Jan. 25	Asbury Park, N. J.	Jan. 9
Jan. 30	Phoenix, Ariz.	Jan. 2
Jan. 30	Eagle, Neb.	Jan. 16
Feb. 3	Melbourne, Fla.	Jan. 9
Feb. 3	St. Paul, Minn.	Oct. 31
Mar. 15	Culver, Ind.	Dec. 26

FEDERAL GOVERNMENT WORK

Jan. 17	Post Office—Franklin, Pa.	Dec. 5
Jan. 17	Post Office—Cohoes, N. Y.	Dec. 5
Jan. 20	Heating System—Spec. 3722 —Rockaway, N. Y.	Jan. 9
Jan. 20	Oil Storage Buildings, etc.—Spec. 3714 — Hampton Roads, Va.	Jan. 9
Jan. 20	Post Office — Harrisonville, Mo.	Dec. 5
Jan. 20	Post Office—Owego, N. Y.	Dec. 5
Jan. 20	Post Office—Sunbury, Pa.	Dec. 5
Jan. 20	Post Office—Decatur, Ala.	Dec. 5
Jan. 20	Post Office — Shelbyville, Ind.	Dec. 26
Jan. 20	Double Quarters for Officers — Spec. 3603 — Newport, R. I.	Jan. 16
Jan. 20	Additional Buildings, etc. Spec. 3745 — Indianhead, Md.	Jan. 16
Jan. 20	Coal Storage and Reclaiming Building—Spec. 3714—Norfolk, Va.	Jan. 16
Jan. 23	Post Office—Salem, Va.	Jan. 2
Jan. 23	Post Office — Russellville, Ark. Adv. Jan. 2.	Jan. 2
Jan. 27	Extending Pneumatic Tube System, etc.—Spec. 3658—Hampton Roads, Va.	Jan. 16
Jan. 27	Heating Hangar—Spec. 3748 —Anacostia, D. C.	Jan. 16
Jan. 27	Gas Holder, Removing System, etc.—Spec. 3594—North Ft. Worth, Tex.	Jan. 16
Jan. 28	Dredging—Key West, Fla. Adv. Jan. 2 and 9.	
Feb. 3	Dredging — Spec. 3579 — Ft. Lafayette, N. Y.	Jan. 16
Feb. 3	Kitchen Equipment—Spec. 3730—Chelsea, Mass.	Jan. 16
Feb. 3	Water Tower, Pump and Tank House Equipment—Spec. 3682 — Philadelphia, Pa.	Jan. 16
Feb. 4	Boilers—Memphis, Tenn. Adv. Jan. 9.	Jan. 9
Feb. 4	Turbine, Pumpset, etc. — Memphis, Tenn. Adv. Jan. 9.	Jan. 9
Feb. 10	—Metal and Glass—Baltimore, Md. — Adv. Jan. 16.	Jan. 16
Feb. 11	Bridge—Washington, D. C. Adv. Jan. 16.	Jan. 16
Mar. 1	Foundation and Rip Rap—Baltimore, Md. Adv. Jan. 16.	Jan. 16
Mar. 1	Dredging—Superior, Wis.	Jan. 16

MISCELLANEOUS

Jan. 21	Oils and Greases—New York, N. Y.	Jan. 16
Jan. 24	Wharf—Esquimalt, B. C.	Jan. 16
Jan. 24	Sheet Steel Rivets—Los Angeles, Cal.	Jan. 2
Feb. 3	Dam—Los Angeles, Cal.	Jan. 9
Feb. 19	Gantry Crane — Seattle, Wash. Adv. Jan. 2 and 9.	Jan. 2

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Md., Baltimore—Bd. Awards soon lets contract building 32 rein.-con. and terra cotta filter operating tables for Lake Montebello filters, Contr. No. 46. About $26,000. F. W. Lee, city engr. Noted Dec. 19.

Md., Brunswick—F. L. Spitzer, city clk., receives bids about Feb. 10, for trenching and laying 5 mi. 4-10 in. wood stave pipe from springs in London Co., Va., gravity flow, also enlargement and improvement of reservoir. About $126,000. Norton, Bird & Whitman, 1320 Munsey Bldg., Baltimore, engrs. Noted Nov. 28.

Miss., Inverness—City receives bids in March, improving water-works and electric light system. Work includes c.i. and galvanized iron pipe, valves, hydrants, oil engines, pumps, reservoirs, alternators, etc. Former bids rejected. X. A. Kramer, Magnolia, engr. Noted Dec. 19.

O., Cleveland—Bd. Pub. Serv. plans to build brick, rein.-con. and steel filtration plant, rein.-con. flooring and concrete foundation, foot East 49th St., to have daily capacity of 160,000,000 gal. About $500,000. F. H. Betz, city engr.

Ill., East Alton—Bd. Local Impvts. had plans prepared by Sheppard & Morgan, archts., Edwardsville Bank Bldg., Edwardsville, for water-work distribution system. About $65,500.

Wis., Milwaukee—City plans to drill artesian wells in various sections of city. About $50,000 appropriated for project. G. Staal, city engr.

Ia., Shenandoah—City plans election to vote on bonds to improve water-works.

Okla., Bristow—City defeated $15,000 bonds for extending water-works. Noted Dec. 26.

Okla., Oilton—City plans election in spring to vote on bonds for water-works system. J. Harris, mayor.

BIDS DESIRED

Fla., Bradentown—Until Jan. 31, by city, furnishing steam-driven air compressor and approved air-lift pump for 7 in. well. L. L. Hine, clk.

O., Maple Heights—Until Feb. 3, by Village, building water pipe line in Dunham Rd. and Orchard Ave. About $7500. Work involves 2600 ft. 6 in. steel pipe. R. Hecker, 509 Leader-News Bldg., Cleveland, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

O., Toledo—City received bid building galleries, floors, railings, lavatories and installing piping at Bway Pumping Sta., from Spear Moylan & Lasley, Toledo, $24,600.

Mich., Saginaw—City received only bid installing 2 electrically driven pumping units, 3 transformers and accessories for west side water works station, from Allis Chalmers Mfg. Co., West Allis, Wis., $5800. Noted Jan. 2.

★Mich., Wyandotte—City let contract building filter plant with 6,000,000 gal. capacity, composed of six filter units, 21½ x 24 ft. of 1,000,000 gal. capacity each, 40 x 65 ft. and 37 x 73 ft. brick and steel filter and head houses, 2 coagulation basins, 64 x 94 ft. each, filtered water reservoir having capacity of 850,000 gal., usual equipment of hydraulic valves and controllers and 32 x 50 ft. brick addition to pumping station, using wood piles with alternate on reservoir, to Pitt Constr. Co., Fulton Bldg., Pittsburg, Pa., $195,485. Noted Jan. 9.

★N. D., Elgin—City let contract for pumping machinery and wells and building 50,000 gal. steel tank on 100 ft. steel tower to J. Kennedy, Fargo. About $30,000.

Sewers

PROPOSED WORK

Conn., New Canaan—Town Selectmen plan to replace present sewer system with a modern system.

Conn., New Haven—City plans to sell $100,000 bonds to build sewerage system in Westville Dist. F. L. Lord, city engr.

Ala., Sheffield—City plans to build storm sewers in various streets, 1½-2 mi. long. R. A. Chapman, city engr.

Miss., Passagoula—See "Streets and Roads."

O., East Cleveland (Cleveland P. O.)—City plans to build 1 mi. concrete sewer in Marloes Ave. About $13,000. M. Garnet, city engr.

Ind., Terre Haute—City plans to build sewers in various streets, involving 1 mi. 12-36 in. concrete, vitr. or segmental block, pipe, etc. About $30,000 R. A. Koerner, city engr.

Mich., Pontiac—City having revised plans prepared by H. H. Barnett, engr., City Hall, installing Imhoff tanks, also extensions to treat sewage and prevent dumping it into Clinton River. About $250,000.

Ill., Staunton—Bd. Local Impvts. plans to build sanitary sewer in various streets. About $110,000.

Okla., Bristow—City defeated $20,000 bonds for extending sewerage system. Noted Dec. 26.

Cal., Santa Barbara—See "Streets and Roads."

Que., Verdun—Town receives bids in February, building sewers. About $57,000. J. Wishart, clk.

Ont., Barrie—Town plans to build sewerage system. A. W. Smith, clk.

BIDS DESIRED

Pa., Portvue—(McKeesport P. O.)—Until Feb. 5, by Borough Council, building sewerage system. C. Kelly, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

★N. Y., Corona—M. E. Connolly, pres. Queens Boro., let contract building sewer in 43rd St., from line of Flushing Bay, to A. M. Hazell, 26 Cortlandt St., New York City. About $19,000.

★N. Y., Syracuse—City let contract building Sect. A of 17th Ward sewer on Lombard St. from Maple St. to point east, to J. Young, 509 Bastable Blk. About $36,985. Noted Sept. 26.

★O., Sandusky—City let contract building sewer and 12 in. water line in Sycamore Ave., also Lane and Wayne Sts., to M. J. Callaghan, Sandusky. About $20,022.

★Ariz., Globe—City let contract building sanitary sewers and sewage-disposal plant, cement pipe, to Clarke-Henry Constr. Co.,

Sewers (Continued)

38 South Sutter St., Stockton, Cal., about $226,400. Project consists of 2 Imhoff tanks, 2 sludge beds, 1 chlorinator house, involving 15,000 cu.yd. earth excav., 1000 cu.yd. rock excav., 500 ft. high fence, 93,787 ft. 6-18 in. pipe, 92,224 ft. trenching and back filling, 4-12 ft. cuts, 60 ft. 18 in. and 120 ft. 8 in. pipe, 120 cu.yd., concrete work, 70 cu.yd. masonry and 800 ft. 3 in. pipe, etc. Noted Dec. 26.

Bridges

PROPOSED WORK

Mass., Boston—J. H. Brennan, representative of Boston, has filed bill in House of Representatives for appropriation of $1,000,000 to build bridge over Boston Harbor, between Boston and East Boston, as memorial to Massachusetts soldiers and sailors.

Connecticut—See "Streets and Roads."

N. C., Badin—Comrs. Stanly Co., (Albemarle), and Montgomery Co., (Troy), having plans prepared for bridge over Yadkin River near here.

Ga., Hamilton—See "Streets and Roads."

Tenn., Centerville—Comrs. Hickman Co. plan to build bridge over Beaverdam Creek. About $10,000.

O., Elyria—Lorain Co. having plans prepared for bridge in Rochester Twp. About $10,000. F. P. Crosse, co. engr.

Ill., Chicago—See "Buildings."

Ill., Sterling—City plans to build bridge on 1st Ave. About $150,000. V. N. Taggett, Morrison, engr.

Wis., Beloit—City receives bids in spring building rein.-con. bridge over Rock River, 500 ft. long, 64 ft. wide. B. Wood, clk.

Wis., Oshkosh—City having plans prepared by Scherzer Rolling Lift Bridge Co., 5454 Everett Ave., Chicago, building bridge over Fix River on Light St., 200 to 300 ft. long.

Kan., Lyndon—Osage Co. soon lets contract building 90 ft. rainbow arch bridge, 18 ft. wide.

Kan., Topeka—Comrs. Shawnee Co. receive bids about Feb. 1, building 4 bridges over Deer Stinson, Tecumseh and Whitson Creeks, on new Fort to Fort Highway between Ft. Riley and Ft. Leavenworth.

Neb., Lincoln—Comrs. Lancaster Co. receive bids in March building 90 ft. rein.-con. arch, 27 ft. wide, pile foundation, on North 14th St. About $18,000. Work involves 550 cu.yd. rein.-con., 11 tons steel and 1200 lin.ft. wooden piling. A. H. Edgren, co. engr.

Utah, Logan—Comrs. Cache Co. plan to build 125 ft. steel bridge with approaches over Blacksmith's Fork River at mouth of Blacksmith's Fork Canyon. About $10,000. T. H. Humpherys, co. engr.

Utah, Smithfield—Comrs. Cache Co. (Logan) plan to build 110 ft. steel bridge on concrete piers and 125 ft. steel bridge with approaches over Bear River here. About $10,000 each. T. H. Humpherys, co. engr.

Utah, Trenton—Comrs. Cache Co. (Logan) plan to build 100 ft. steel bridge on concrete piles with approaches and 130 ft. steel bridge over Bear River here. About $10,000 each. T. H. Humpherys, co. engr.

BIDS DESIRED

O., Lisbon—Until Jan. 31, by Comrs. Columbiana Co. building concrete bridge in Madison Twp. About $23,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. J., Trenton**—Pennsylvania R.R., Broad St. Sta., Phila., Pa., and City, let contract extending Passaic St. over Delaware and Raritan Canal by building 3 arch concrete bridge, 40 ft. long, 40 ft. wide, also 700 ft. concrete wall on both sides of bridge, to A. McMullen Co., Finance Bldg., Phila. About $50,000. Noted Dec. 12.

★**Kan., Hiawatha**—Brown Co. will build 22 bridges and culverts by day labor.

Structural Steel

PROPOSED WORK

N. J., Bayonne—See "Miscellaneous."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

★**Pa., Phila.**—See "Miscellaneous."

Reinforced Concrete

PROPOSED WORK

Md., Baltimore—See "Industrial Works."

Wis., Beloit—See "Bridges."

Neb., Lincoln—See "Bridges."

Cal., Oceanside—See "Excavation and Dredging."

P. R., San Juan—See "Industrial Works."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

★**N. J., Trenton**—See "Bridges."

★**Minn., St. Paul**—See "Industrial Works."

Streets and Roads

PROPOSED WORK

Maine—State Highway Comn., Augusta, plans to expend $2,669,000 to build state and state-aid highways and bridges, also $700,000 for maintenance of other highways. P. D. Sargent, ch. engr.

New Hampshire—State Highway Comn., Concord, has asked legislature for appropriation for road work, which together with Federal aid and increase in motor vehicle fees will amount to $1,500,000. About $900,000 will be expended for construction and $600,000 for maintenance. F. E. Everett, comr.

Mass., Boston—Comn. Waterway & Pub. Lands applied to State Legislature for appropriation to build new street near drydock at South Boston to be known as Dry Dock Ave., cost, $70,000; also to extend Maverick St., East Boston in connection with large improvement project, $65,000.

Mass., Dracut—(Lowell P. O.)—A. Colburn, senator, asked State Legislature to direct State Highway Comn., Boston, to improve State Highway known as Black North Route from Lowell to Lawrence, in Dracut and Methuen Twps. About $20,000.

Mass., Quincy—A. Whiton, mayor, asked State Legislature to appropriate $150,000 to complete Furnace Brook Parkway.

Connecticut—State Highway Comn., Hartford, plans to expend $2,500,000 to build highways and bridges and $1,500,000 for maintenance and replacements. Federal Government will appropriate toward cost. C. J. Bennett, comr.

N. J., Jersey City—City plans to open, widen and improve Merseles St. About $12,000. C. A. Van Keuren, city engr.

Pa., Coatesville—City receives bids in spring for paving 30,000 sq.yd. About $100,000. C. A. Niles, city engr. Noted Jan. 2.

Md., Baltimore—Park Bd. plans to build new public square in East Baltimore in addition to City Spring Sq. J. V. Kelly, Stockbridge, secy.

Md., Westminster—Comrs. Carroll Co. receive bids in February regrading and resurfacing 7 mi. Littlestown Rd., 16 ft. wide, concrete with 3 ft. dirt shoulders, total cost, $300,000; also rebuilding 4 mi. New Windsor Rd., 16 ft. wide, macadam, cost, $50,000. State Highway Comrs., Annapolis, will also regrade and resurface 4 mi. Littlestown Rd. H. S. Shirley, Towson, and E. Friese, 4203 Connecticut Ave., Baltimore, engrs.

N. C., Taylorsville—Comrs. Alexander Co. will ask State Legislature, Raleigh, for permission to issue $50,000 bonds to improve roads.

Ga., Hamilton—State and Federal Government had surveys made for improving 20 mi. of Columbus-Atlanta Highway, including bridges. About $100,000.

Ala., Bessemer—City plans to improve streets. About $12,000. S. R. Batson, city engr.

Ala., Sheffield—City plans to pave 100,000 sq.yd. of streets. R. A. Chapman, city engr.

Miss., Pascagoula—City rejected bids received Dec. 18, paving and building sanitary storm sewers in various streets. About $115,000. Work will be re-advertised later. Work involves 26,750 sq.yd. pavement, 62,500 cu.yd. excav., curbs, gutters, etc. X. A. Kramer, Magnolia, engr. Noted Dec. 12.

Tennessee—State Highway Comn., Nashville, plans to build following Federal and county aid projects; Hamilton Co., State Highway No. 20, concrete, cost $54,738; State Highway No. 7, macadam, $36,910; Franklin Co., State Highway No. 7, macadam, $121,474; Bedford and Moore Counties, State Highway No. 7, gravel, $99,475; Greene Co., State Highway No. 2, macadam, $38,322; Washington Co., State Highway No. 2, macadam, $287,710; Henry Co., State Highway No. 11, chert, $130,000; Hawkins Co., State Highway No. 1, macadam, $350,000; Grainger Co., State Highway No. 1, macadam, $65,000; Sullivan Co., State Highway No. 1, macadam, $25,000; Carroll Co., State Highway No. 3, chert, $120,000; also following state aid projects. Coffee Co., State Highway No. 7, chert, $38,533; Maury Co., State Highways Nos. 1 and 10, chert, $31,620; Marion Co., State Highway No. 7, $25,000; Unicoi Co., Flag Pond Rd., macadam, $25,000. A. M. Nelson, state highway engr.

O., East Cleveland (Cleveland P. O.)—City plans to pave Lee Rd. and 5th Ave., brick, wood block or asphalt. About $22,000. Mr. Garnet, city engr.

O., Euclid—City receives bids in autumn repaving and widening 2½ mi. Euclid Ave. from Chardon Rd. to county line, from 60 to 100 ft. About $300,000. W. A. Stinchcomb, city engr.

O., Martins Ferry—City receives bids in spring paving Seabright Lane from 7th to 8th St., 8th St. from Seabright Lane to Park St., 9th St. from Carlisle to Park Sts., Park St. from Carlisle to 9th Sts., Colerain Pike from 10th St. to city limits, alley from hospital to Blackford Alley, alley between 5th and 6th Sts. from Hanover to Walker Sts., total length, 1500 ft., 30 ft. wide. About $10,000. C. Lash, Martins Ferry, engr.

Ind., Terre Haute—Vigo Co. plans to pave 4 mi. Maple Ave. and North 25th St., brick block on 4 in. concrete base. R. E. Gibbons, co. engr.

Ind., Terre Haute—Comrs. Vigo Co. plan to grade 1½ mi. Lafayette Ave. Rd. 20 ft. wide, brick wearing surface and grout filler on 4 in. concrete base. R. E. Gibbons, co. engr.

Ind., Terre Haute—Bd. Pub. Wks. plans to pave and curb 4 mi. sidewalks, concrete foundation. About $250,000. R. A. Koerner, city engr.

Mich., Detroit—Bd. Pub. Wks. having estimates made and plans prepared for paving and curbing 1 mi. Mt. Elliott St. from Conant Ave. to Lynch St., 30 ft. wide, asphaltic concrete. C. W. Hubbell, city engr.

Mich., Ferndale—(Royal Oak P. O.)—Village plans to lay 1 mi. concrete pavement 14 ft. wide. About $20,000. J. Graves, R. F. D., No. 3, Highland Park, village clk.

Mich., Highland Park—(Detroit P. O.)—City having estimates made paving and curbing Tyler St. from Lincoln to Hermann Sts., asphalt or concrete. About $24,000. L. C. Whitsit, city engr.

Ill., Edwardsville—City soon lets contract for paving in Brown St. Paving Dist. C. A. Sheppard, city engr. Noted Apr. 11.

Wisconsin—State Highway Comn. Madison, plans to drain and grade 8 mi. Hurley-Ashland Rd., Ashland Co., cost $39,000; 4 mi. Barron-Turtle Lake Rd., Barron Co., $24,000; grade, drain and gravel surface 8½ mi. Ashland-Superior Rd., Bayfield Co., $43,000; grade, drain and surface, with clay and gravel 9 mi. Frederic-Webster Rd., Burnett and Polk Counties, $45,000. S. P. Hall, Spooner, engr.

Wis., Waukesha—Waukesha Co. plans to grade, drain and surface roads with crushed gravel or stone. About $150,000 available.

Ia., Davenport—City plans to grade 15 streets and avenues, cost, $37,750; also pave 80 streets and avenues, 12 mi. long, 60 ft. wide. R. E. Sowistowsky, city engr. Noted Nov. 21.

Streets and Roads (Continued)

Ia., Davenport—City plans to extend Kirkwood Blvd. from present terminus at Bridge Ave. to Jersey Ridge Rd. R. E. Sowistowsky, city engr.

Minn., Tracy—City receives bids in March paving 25 blocks, 36 and 44 ft. wide. About $75,000. J. W. Shaffer, New York Life Bldg., Minneapolis, engr.

Kan., Junction City—Comrs. Geary Co. receive bids about Mar. 1, building 12 mi. concrete road, 18 ft. wide, and 0.9 mi. brick highway. About $152,702. B. Boyle, co. engr. Noted Dec. 19.

Neb., Lincoln—City plans to pave 25th St. between Washington and Garfield Sts. A. Dobson, city engr.

Neb., Omaha—City plans to pave about 15 mi. streets. J. A. Bruce, city engr.

Neb., Omaha—City soon lets contract paving in Street Impvt. Dists. No. 1772 and 1773 asphalt stone, vitr. brick, vitr. brick block, art stone, macadam, creosoted wood block, asphaltic concrete and 3 in. wire-cut brick block. J. A. Bruce, city engr.

Wyoming—State Highway Comn., Cheyenne, plans to build roads throughout state. If program submitted to Legislature is adopted funds available for state highway construction and maintenance in 1919 will be $450,000, Federal Government will appropriate $260,000 and counties $550,000. Z. E. Sevison, state highway engr.

Wyo., Thermopolis—Town plans to lay 20,000 sq.yds. of pavement. J. B. Chessington, town engr.

Mo., Kennett—Dunklin Co. will expend $150,000 bonds to build concrete roads in Cotton Hill Twp. C. M. Edwards, Malden, atty.

Texas—State Highway Comn., Austin, plans to build Exall Highway through Hunt Co. About $120,000.

Tex., Jasper—Comrs. Jasper Co. soon lets contract building 12.4 mi. hard surfaced road with drainage structures between Buna and Kirbyville Twps. C. C. Brown, co. judge.

Tex., Texarkana—City plans to pave 65 blocks with brick, concrete and asphalt.

Okla., Oklahoma—City receives bids about Feb. 1, paving Park Pl. from Blackwelder to Kentucky Sts. and McKinley Ave. from Linwood to 10th Sts. B. M. Hart, city engr.

Ore., Marshfield—City having surveys made for paving Bway. E. K. Burton, city engr.

California—State Highway Comn., Sacramento, received no bids grading and paving 15 mi. Tecate Divide Highway, San Diego Co. Noted Jan. 9.

Cal., San Diego—A. H. Wright, city clk., receives bids in February, grading and paving concrete highway on 5 in. concrete base between San Diego proper and La Jolla, 2½ mi. long, 20 ft. pavement, with 5 ft. beams on either side. G. Cromwell, city engr.

Cal., Santa Barbara—City soon lets contract grading and paving Quarantina St. between Victoria and Sola Sts., 5 in. concrete pavement, also concrete gutters, concrete and stone curbs and 6 in. vitr. pipe sewer connections. A. B. Cook, city engr.

BIDS DESIRED

W. Va., Fayetteville—Until Feb. 10, by Fayette Co., paving 32 mi. Midland Trail Rd. on James River and Kanawha Turnpike, involving 150,000 cu.yd. unclassified material, 118,000 sq.yd. paving and 4000 yd. concrete and stone masonry. J. K. McGrath, co. engr.

Ala., Moulton—Until Feb. 11, by Comrs. Lawrence Co., grading, draining and surfacing 7.38 mi. Decatur and Sheffield Rd., chert or gravel. Work involves 26,331 cu. yd. earth excav., 13,300 cu.yd. surfacing, 278 cu.yd. concrete and 525 lin.ft. vitr. pipe.

Louisiana—Until Jan. 27, by State Highway Comn., New Orleans, building 2.4 mi. Columbia-Rayville Rd., Caldwell Parish, cost, $10,624; 5 mi. road extension in East Baton Rouge Parish; 8.59 mi. road between New Iberia and Jeanerette Twps., Iberia Parish; 5.42 mi. Alexandria-Melville Rd., Avoyelles Parish, $50,456. Federal Government will appropriate toward cost. D. Bule, state highway engr. Noted Sept. 26.

Ohio—Until Jan. 31, by State Highway Comn., Columbus, building roads as follows:

Ashtabula Co., Sects. "N," "O" and "P," Cleveland-Buffalo Rd., 11.92 mi., monolithic brick, cost, $421,419.

Sect. "C," Youngstown-Conneaut Rd., 5 mi., monolithic brick or concrete, $121,062.

Ashland Co., Sect. "G," Sacannah-Vermillion Rd., 4.08 mi., monolithic brick or plain concrete, $105,712.

Columbiana Co., Sect. "E," Cleveland-East Liverpool Rd., $22,537.

Sect. "Q," Cleveland-East Liverpool Rd., .98 mi. brick, $36,990.

Guernsey Co., Sect. "S," Steubenville-Cambridge Rd., 1.49 mi., bituminous macadam, $24,101.

Sect. "T," Steubenville-Cambridge Rd., 2.04 mi., grading and bridges, $21,939.

Sect. "A," McConnelsville-Spencer Rd., 1.36 mi., water-bound macadam, $22,353.

Highland Co., Sect. "I," Milford-Hillsboro Rd., 2.79 mi., concrete, gravel side drive or water-bound macadam, $49,259.

Sect. "K," Milford-Hillsboro Rd., 4.63 mi., bituminous macadam, water-bound macadam or concrete with gravel side drives, $87,250.

Sect. "C-2," Hillsboro-Chillicothe Rd., .14 mi., water-bound macadam, bituminous macadam or concrete with gravel side drives, $16,032.

Knox Co., Sect. "L," Columbus-Wooster Rd., 1.99 mi., rein.-con. or semi-monolithic brick, $68,023.

Miami Co., Sect. "A," Milton-Carlisle Rd., .85 mi., rein.-con., $20,610.

Sect. "B-1," Milton-Carlisle Rd., .25 mi. rein.-con., $6,272.

Okla., Miami—Until Jan. 20, by City, for paving various streets with bitulithic. About $800,000. Hughes Eng. Co., 304 Bank of Commerce Bldg., Tulsa, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., Secaucus—Town received only bid Dec. 24, grading and improving County Ave., from Clinton Contg. Co., 306 Charles St., West Hoboken. Bid was 275 per cent of engineer's estimate. Noted Dec. 19.

★Virginia—State Highway Comn., Richmond, let contract building 4.08 mi. gravel road between Cabin Point and Burrowsville, Surry and Prince George Counties, to J. J. Pattershill, Virgilina. About $34,000. Noted Dec. 26.

★W. Va., Williamson—Comrs. Mingo Co. let contract building 5½ mi. road between here and Burch Twp., to C. S. Waugh, Wytheville, Va. About $77,200. Work involves excav. without classification, including all clearing and grubbing, removal of structures, obstruction, etc., formation of embankments, subgrade and shoulders, refilling around concrete and masonry structures, disposal of surplus material and incidental work, at $0.74 per cu.yd., overhaul after 1500 ft. free haul, $0.02 per 100 ft., Class A concrete in place, per plan complete, $12.00 per cu.yd., Class B concrete, $10.00 per cu.yd., Class C concrete, $8.00 per cu.yd., cement rubble masonry, $6.00 per cu.yd., dry rubble masonry, $4.50 per cu.yd., 12 in. vitr. pipe in place, $1.75 per lin.ft., 15 in. vitr. pipe, $2.00 per lin.ft. and 18 in. vitr. pipe, $2.25 per lin.ft.

★S. C., Charleston—Sanitary & Drainage Comn., Charleston Co., let contract building 3.7 mi. road 20 ft. wide, 8 in. center and 6 in. sides, to Simons & Mayrant, Broad St., $3.13 per sq.yd. About $135,000. Work involves 35,000-58,000 sq.yd. concrete. Noted Jan. 9.

★Ga., Macon—City let contract for paving roads during 1919, to T. J. Lowe, Macon. About $0.15½ per sq.ft.

★Ala., Anniston—Calhoun Co. let contract repairing and improving 5 mi. road, to Nixon Transfer & Coal Co. About $20,000.

★O., South Euclid—City let contract laying bluestone sidewalks on Belvoir Blvd. from Mayfield Rd. to Cedar Rd., to Euclid Stone & Brick Co., 607 Electric Bldg., $18,590.

★Ind., Terre Haute—Comrs. Vigo Co. let contract grading 1.1 mi. Ft. Harrison Rd., 20 ft. wide, brick wearing surface and grout filler, on 4 in. concrete base, to Lane Bros., Rockville. About $27,500.

★Minn., Waseca—Comrs. Waseca Co. let contract grading 6 mi. road, to J. Brown, Madison Lake.

$15,000,000 per week

In the first week of April, 1914—which was in the Spring just prior to the European War—contracts let in the United States aggregated

$14,000,000

One would expect that the figure for 1918 would be comparatively small. Yet, in spite of World War, high prices and the embargo on all except Government work, contracts let in the first week of last April amounted to

$15,000,000

Of this sum, only 4½ millions, or 30 per cent., were for Federal Government work, leaving $10,500,000 for private, municipal and state projects.

When contracts are being let at the rate of 14 or 15 million dollars worth a week, right in the actual construction season, very few contractors should have cause to grumble.

We believe that the coming Spring will be an unusually prosperous season for contractors. And we expect to prove it by figures.

Will your contract be among them?

Be prepared.

Streets and Roads (Continued)

Arkansas—State Highway Comn., Little Rock, let contract building 18 mi. gravel road in Howard Co. and 340 lin.ft. steel bridges, concrete culverts, etc., to Healy Constr. Co., Grady, $146,560.

★**Tex., Palestine**—Comrs. Anderson Co. let contract building Montalba and Corsicana Highways, to D. La Roe, $20,000 and $40,000 respectively.

★**Cal., Riverside**—Bd. Supervs. let contract building Indio Coachella Rd., involving 1033 cu.yd. Class "A" concrete paving, 7.4 cu.yd. Class "A" concrete (ford), 543 cu.yd. excav. and 4145 lin.ft. shaping roadbed to, Johnson Shea Co., Riverside, $11,-900. Noted Dec. 26.

★**Cal., San Pedro**—Bd. Pub. Wks., Los Angeles, let contract grading, bitulithic paving, cement curbs, gutters and walks, also building storm drains and sewers in 2nd St. Impvt. Dist., to Fairchild, Gilmore Wilton Co., Pacific Electric Bldg., about $394,000

Railways

PROPOSED WORK

Massachusetts—Comn. Waterways & Pub. Lands applied to State Legislature, Boston, for appropriation of $85,000 to build railroad and connections together with $130,000 for tracks and roadways, in East Boston.

Massachusetts—Comn. Waterways & Pub. Lands applied to State Legislature, Boston, for appropriation of $400,000 to purchase Union Freight R. R. operating on Atlantic Ave., Boston, between North and South Sta. and to extend terminal facilities.

New York—Transatlantic Shipbuilding Corp., 95 Liberty St., New York City, had plans prepared building wood and steel marine railway in Tottenville, S. I. About $100,000. J. M. Carver, 29 Bway., New York City, engr.

Excavation and Dredging

PROPOSED WORK

N. Y., New York—Drainage—G. C. Burlingame, 150 Nassau St., soon receives bids draining, grading and developing 100,000 acres former rice field, in South Carolina; advertised in this issue.

Miss., Pascagoula — Excavation — See "Streets and Roads."

Ill., Belleville—Channel—Comrs. North Richland Creek D. D. reconsidering plans to straighten and deepen North Richland Creek Channel. L. C. Miller, Belleville, comr.

Ore., Bandon—Excavation and Dredging—Congressional Rivers and Harbors Com. recommended that U. S. Congress appropriate $64,000 to deepen channel here between Breuer's dock and deep water, 200 ft. wide, 13 ft. at low tide. Total cost $128,000.

Ore., Turner — Irrigation — Willamette Valley Irrigated Lands Co. and farmers of valley plan to build system to irrigate 15,-000 acres of land. A. Cupper, Salem, state highway engr.

Cal., El Centro—Canal—Dirs. Imperial Irrigation Dist. will hold election Jan. 21 to ratify contract with U. S. Recl. Serv. by which district secures right to take water from Colorado River at Languna Dam and construct an all American Canal to cost $26,732,602, not including cost power development. Will also vote on proposition of requesting Secy. of Interior and U. S. Congress to include district in unified Colorado River project to guarantee storage of water in upper Colorado River, control of flood on lower Colorado River, etc. Bd. Engrs. who reported feasibility of canal consisted of C. E. Grunsky appointed by district, E. Mead of University of California and W. W. Schlecht, of U. S. Recl. Serv.

Cal., Oceanside—Irrigation—W. F. McClure, state engr., Sacramento, completed surveys and submitted report to Water Com. for San Luis Rey irrigation project to embrace 43,000 acres between Oceanside and Esconidido by diversion of water from San Luis Rey River at Werner dam. Project involves construction 33 mi. of concrete conduits and pipe lines to cost $1,106,-732; multiple arch concrete dam, 120 ft. high and 550 ft. long, $214,715; concrete distributing system containing some steel, $310,546

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Albany—Barge Canal Work—W. W. Wotherspoon, supt. pub. wks., received bids Jan. 7, excavating canal channel in Genesee River, near Elmwood Ave. bridge, Contr. 191, from Empire Eng. Co., 6 Church St., New York City, $176,170; C. W. Denison, Rochester, $188,300; Amer. Pipe & Constr. Co., 112 North Broad St., Phila., Pa., $192,900. Work involves 76,000 cu.yd. excav. and 7500 cu.yd. rock spoil protection; completing canal from east guard lock to Genesee River, and work in Genesee Valley Park, Contr. No. 192, from Brown & Lowe Co., Foster Ave., Schenectady, $428,860; MacArthur Bros. Co., 120 Bway., New York City, $439,370; Mohawk Dredge & Dock Co., Inc., Herkimer, $441,236. Work involves 86,000 cu.yd. excav., 65,000 ft. b m. sheeting and bracing, 78,300 cu.yd. forming embankment, 19,500 cu.yd. loam surfacing, driving 1100 sq.ft. steel sheet piling, furnishing and driving 4100 sq.ft. steel sheet piling, 6500 cu.yd. 2nd class concrete, 1680 cu.yd. 1st class rein.-con., 102 cu.yd. 2nd class rein.-con., 10,750 cu.yd. wash wall, 260 sq.yd. grouted cobblestone paving, 385 cu.yd. 2nd class rip rap, 140 lin.ft. wrought iron pipe railing, furnishing and placing 5200 lb. metal reinforcement, placing 48,000 lbs. metal reinforcements; placing 1 arch ribs in foot bridges, 6980 sq.ft. Portland cement sidewalks, 11,360 sq.yd. gravel walks, relaying 210 sq.yd. sidewalks, etc. Noted Dec. 12.

★**La., Lake Charles** — Dredging — Bd. Comrs. Sulphur D. D. No. 3 let contract for dredging, to Lake Arthur Dredging Co., Sect. 1, 121,000 cu.yd., at $0.19½ per cu.yd., Sect. 2, 179,000 cu.yd. at $0.16, Sect. 3, 299,000 cu.yd. at $0.18. Noted Dec. 26.

★**Ariz. Globe**—Excavation—See "Sewers."

★**N. S., Halifax**—Dredging—City let contract dredging and building retaining wall to Standard Constr. Co., Halifax. About $16,826.

★**Ont., Welland**—Canal—Dept. Rys. & Canals let contracts completing Welland Ship Canal as follows: Sect. 1 to Dominion Dredging Co., Ltd., 17½ Elgin St., Ottawa; Sect. 2, Baldry, Yerbaugh & Hutchinson, Ltd., 14 Queen St., St. Catharines; Sect. 3, Doheny, Quinlan & Robertson, Montreal, Que.; Sect. 5, Canadian Dredging Co., Ltd., King St., Midland. Cost plus basis.

Industrial Works

INDUSTRIAL WORK

Mass., Campello (Brockton P. O.)—A. E. Keith Co. receives bids about Mar. 10, building 64 x 71 ft. power plant, 40 ft. high. About $56,000. Jenks & Ballon, 735 Grosvenor Bldg., Providence, R. I., engrs.

Mass., Worcester—E. T. Chapin, archt., 340 Main St., preparing plans for 1 story, 160 x 212 ft. brick and rein.-con. garage, rein.-con. flooring and concrete foundation, on Mechanic St. About $60,000. Owner's name withheld.

Conn., Bridgeport—McCabe & Blagge, archts., 952 Main St., soon receives bids building brick and concrete grain elevator building on Water St. for Susman-Feuer-Brownstein Co., 23 Bank St.

Conn., Hartford—Swift & Co., 60 North Market St., Boston, Mass., receives bids about Apr. 1, building 2 story, 78 x 100 ft. brick and concrete storage building, rein.-con. flooring and concrete foundation, on Church St. here. About $90,000. A. E. Bump, 60 North Market St., Boston, Mass., engr. Noted July 25.

N. Y., Brooklyn—A. Gobel, 34 Rock St., rejected bids building 1 story, 69 x 100 ft., brick and steel garage, rein.-con. floors, concrete foundation. About $27,000. L. Allmenderger, 20 Palmetto St., archt. Work will be readvertised in about 3 months.

N. Y., Brooklyn—W. Goldstein, 1668 47th St., had preliminary plans prepared by M. A. Cantor, archt., 373 Fulton St., for 1 story, 100 x 100 ft., steel and brick garage, concrete foundation, 6th Ave. and 62nd St. About $25,000.

N. Y., Freeport—Test Tite Piston Co., 47 West 34th St., New York City, had plans prepared by C. Kern, archt., Freeport, for 1 story, 50 x 100 ft. steel and brick factory addition rein.-con. flooring, concrete foundation, on Merrick Rd. About $25,000.

N. J., Newark—Lion Furniture Co., 157 Ferry St., had plans prepared by F. Grad, archt., Springfield Ave., for 3 story, 30 x 100 ft., brick warehouse and store. About $25,000.

Pa., Athens—Ingersoll-Rand Mfg. Co., 11 Bway., New York City, soon receives bids building 1 story, 112 x 240 ft. brick and steel machine shop here. About $55,000. D. A. Keefe, 711 South Main St., engr.

Md., Baltimore—Hess Steel Corp., Biddle St., receives bids in February for several 1 story, steel and rein.-con. additions to plant. About $150,000.

Fla., Apalachicola—City having plans prepared by J. M. Carver, engr., 29 Bway., New York City, for shipyard to include bulkheads, loading docks, etc. About $300,-000.

Tenn., Nashville—Naive—Spillers Co., 134 Second Ave., S., plans to rebuild plant recently destroyed by fire. Loss, $50,000.

Tenn., Newport—Unaka Tanning Co. plans to rebuild plant recently destroyed by fire. Loss between $300,000 and $500,000.

O., Catawba—Catawba Candy Co. plans to build addition to plant. About $150,000.

O., Cleveland—S. H. Weis, archt., 1030 Schofield Bldg., receives bids in spring building 2 story, 40 x 135 ft. rein.-con., brick and steel factory at 1729 East 21st St., for Bissinger Magneto Co., 1013 Schofield Bldg. About $40,000. Noted Oct. 10.

Ill., Chicago—Bankers Supply Co., 2251 South Park Ave., having plans prepared building 1 and 2 story, 100 x 360 ft. brick and rein.-con. printing plant, rein.-con. flooring and concrete foundation on State St. near 59th St. About $110,000. E. C. and R. M. Shankland, 209 South La Salle St., engrs.

Ill., Chicago—Goldsmith Bros. Smelting & Refining Co., 29 East Madison St., plans to build plant additions on 125 x 150 ft. site on 59th and Throop Sts. A. Wolters-dorf, 138 North La Salle St., archt.

Ill., Chicago—W. F. Hall Printing Co., 466 West Superior St., had plans prepared by Graver & Dinkelberg, archts., 80 East Jackson St., building 7 story, 130 x 325 ft. brick, concrete and timber addition to printing plant, concrete foundation, on Superior and Kingsbury Sts. About $800,000. Noted Nov. 28.

Ill., Chicago — Illuminating Electrical Ventilating Co., 154 Whiting St., plans to build 4 story, 60 x 300 ft. brick and rein.-con. factory, rein.-con. flooring and concrete foundation, on Elston Ave. and Snow St. About $100,000. Lebenbaum, Marx & Vigeant, 175 West Jackson St., archts.

Ill., Chicago—International Leather & Belting Co., 3239 South Western Ave., plans to build 1 and 2 story brick and concrete factory buildings, concrete foundation, on Western Ave. at Drainage Canal. About $100,000. Purcell & Elmslie, 122 South Michigan Ave., archts.

Ill., Greenville—J. M. Cummings receives bids about Feb. 15, building garage. About $25,000. M. B. Kane, Bohme Bldg., Edwardsville, archt.

Ill., Joliet—Joliet Forge Co. receives bids about Feb. 15 building 1 story, 60 x 320 ft. brick and steel factory on Irving St. About $140,000. J. D. Sharpe, pres. C. W. Webster, Cutting Bldg., archt.

Ill., Joliet—F. J. Walsh, Bank Bldg., soon lets contract building 12 story garage. R. G. Hoen, 1st Natl. Bank Bldg., archt.

Wis., Milwaukee—R. E. Oberst, archt., 353 Natl. Ave., soon receives bids building 1 story, 60 x 127 ft. brick, rein.-con. and steel service station, concrete foundation, at 596 Jefferson St., for Storage Battery Serv. Co., 137 Oneida St. About $25,000.

Wis., Sheboygan—Phoenix Chair Co., South Water St., receives bids in spring building 4 story, 65 x 165 ft. brick and timber factory and warehouse on Virginia Ave. and South 12th St. Juul & Smith, 801 North 8th St., archts. Noted Nov. 7.

Wis., West Allis—Milwaukee Pottery Co., 70th Ave. and Hicks St., Milwaukee, plans to build 1 story, 90 x 120 ft. brick and timber addition to factory here, concrete foundation. H. Schulte, secy.

Mo., Columbia—See "Buildings."

Mo., Fulton—Bd. Mgrs. State Hospital will ask State Legislature, Jefferson City, for appropriation to build power house to cost $40,000 and equipment, $27,000.

Industrial Works (Continued)

Mo., St. Louis—City plans election to vote on $22,000,000 bonds to build series of grain elevators with total capacity of 1,500,000 bushels. J. A. Hooke, dir. pub. utilities.

Mo., Sikeston—City plans election in April to vote on bond issue to build light plant.

Okla., Inola—Liberty Oil & Carbon Co. plans to build refinery. About $250,000.

Ariz., Humboldt—See "Water-Works."

Wash., Yardley—Ohio Match Co., Wadsworth, O., having plans prepared by Eng. Dept. of Company, building 60 x 120 ft. brick factory here. About $75,000. F. A. Shore, Lindelle Blk., Spokane, will supervise construction.

Ore., Eugene—A. W. Miller, Napavine, Wash., and E. B. Kingman, Columbus, Mont., formed company with $800,000 capital stock to build and operate sawmill to have daily capacity 100,000 ft. lumber.

Cal., Fresno—Lisenby Mfg. Co., Kern and Angus Sts., plans to build large plant. C. Lisenby, pres.

Cal., San Diego—Musher & Co., 140 Liberty St., New York City, purchased uncompleted plant of Nat'l. Sea Food Product Co., foot of Juniper St., and plans to build 175-ft. wing and use same as fish cannery and olive oil packing plant. Cost including equipment $150,000. J. G. Buerkle, 2920 San Diego St., local representative. Noted Dec. 19.

Cal., Tulare—Carpenter Cheese Co., Salida, soon lets contract building 60 x 200 ft. brick or hollow tile factory here. About $100,000. Noted Oct. 10.

N. F., St. John's—Herald Printing Co. plans to rebuild plant recently damaged by fire. Loss, $50,000.

Que., Montreal—Bramson Auto Serv., 455 Phillips Pl., soon lets contract for building and equipping. About $50,000. C. Dufort, 195 St. Catherine St., E., archt.

Que., Montreal—Pyrene Mfg. Co. of Canada, Ltd., 3 St. Nicholas St., soon receives bids building factory. About $25,000. Noted Jan. 2.

Ont., Ft. William—Parrish & Heimbecker plan to build grain elevator. About $200,000.

Man., Portage la Prairie—Woodward & Co. plan to rebuild plant destroyed by fire. Loss, $400,000.

Alta., North Edmonton—Swift Canadian Co. plans to build addition to plant. About $500,000.

B. C., New Westminster—New Westminster Co-operative Assn. plans to build cold-storage plant. About $70,000.

B. C., Vancouver—Fraser Valley Milk Producers' Assn., Ltd., 510 Hastings St., W., plans to build milk-producing station. About $200,000. E. G. Sherwood, secy.

B. C., Victoria—Hutchinson Bros. & Co., 409 Bay St., plans to build foundry. About $50,000. D. C. Hutchinson, mgr.

P. R., San Juan—Aboy Vidal Co. had plans prepared by J. M. Carver, engr., 29 Bway., New York City, for three 3 story, 100 x 150 ft., rein.-con. warehouses, rein.-con. flooring, concrete foundation, also for wood and concrete docks. About $3,000,000.

BIDS DESIRED

N. Y., Brooklyn—Until Jan. 28, by Spencer Realty Co., Bway. and Havermeyer St., building 1 story, 50 x 200 ft., steel garage on Bedford and Myrtle Aves. About $65,000. Shampan & Shampan, 772 Bway., archts.

N. Y., Thiell—Until Mar. 4, by F. A. Vanderlip, 7 Wall St., pres. bd. mgrs., Letchworth Village, building additional power house, installing equipment and underground piping system. About $300,000. Plans include new boilers, piping, feed water heaters, filters, meters, feed pump steam turbines, valves, etc. L. F. Pilcher, Albany, state archt.

Ia., Sioux City—Until Apr. 1, by M. King, pres., 634 Davison Bldg., building concrete terminal elevator for Western Terminal Elevator Co. About $450,000. Noted Jan. 2.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

★R. I., Providence—Marine Eng. & Drydock Co., 170 Westminster St., will build 1-story, 60 x 305 ft. brick and timber workshop and office, rein.-con. flooring and concrete foundation on Allens Ave. work will be done by day labor. About $85,000.

★R. I., Providence—Swiss Cleaning Co., Elmwood Ave., let contract building 1 story, 40 x 60 ft. brick and timber addition, rein.-con. flooring and concrete foundation and extensive alteration work in old building, to Williams & Merchant, Inc., 86 Weybosset St. About $25,000.

★N. Y., Long Island City—L. Gold, 44 Court St., will build 2-story, 100 x 150 ft., steel and brick factory, concrete foundation, on Nott Ave. About $65,000. Work will be done by day labor.

★N. Y., Rochester—Lockner Cigar Co., 28 Ave. D, let contract building 2-story, 40 x 100 ft., brick and mill construction factory on St. Paul St., to G. Kirchner & Co., Clifford Ave. About $30,000, percentage basis.

★N. Y., Thiells—See "Buildings."

★N. J., Linden—MacGovern & Co., 114 Liberty St., New York City, let contract building 1-story, 50 x 150 ft., steel and brick factory, rein.-con. flooring, concrete foundation, to H. Wilhelm & Sons, 803 East Jersey St., Elizabeth. About $25,000. Noted Nov. 7.

★N. J., Newark—Essex Fdry. Co., Murray St., let contract building garage and office building, to Eustice Bros., 40 Clinton St. About $40,000.

★O., Cleveland—Torbenson Axle Co., 1115 East 152nd St., let contract building 2-story, 100 x 140 ft. brick, rein.-con. and steel addition to factory, rein.-con. flooring and concrete foundation, to S. W. Emerson Co., 1900 Euclid Ave. About $75,000.

★Ill., Chicago—Conlon Electric Washer Co., 312 North May St., let contract building brick and rein.-con. washing machine factory, rein.-con. flooring and concrete foundation, covering 75,000 sq.ft. floor space on 52nd Ave. and West 19th St., to F. D. Chase, Inc., 122 South Michigan Ave. About $250,000.

★Ill., Chicago—Independent Snuff Co., 1800 North Winchester Ave., let masonry contract for 3-story, 50 x 100 ft. brick and timber factory, brick foundation, on North Winchester Ave. and Bloomingdale Rd., to W. Polzin, 2700 West 22nd Pl. Carpentry will be done by day labor. About $35,000.

★Wis., Ft. Atkinson—Better Sox Knitting Co. let contract building brick addition to plant, to C. J. Griffin, Wigdale Blk. About $40,000.

★Minn., St. Paul—Griggs, Cooper & Co., 3rd St. and Bway., let contract building 4-story, 120 x 240 ft., rein.-con. factory, on Fairview and University Aves., to Toltz Eng. Co., 1419 Pioneer Bldg. About $300,000. Noted Oct. 17.

Buildings

PROPOSED WORK

Mass., Boston — Dormitory — Massachusetts Agricultural College has asked State Legislature to appropriate $150,000 to build dormitory at college.

Mass., Cambridge—Hospital—A. Quinn, mayor, asked State Legislature for authority to borrow $150,000 to build addition to city hospital.

Mass., Foxboro—Hospital—State Comn. Mental Diseases, State House, Boston, soon receives bids building 2 story, 60 x 130 ft. brick and timber ward building, concrete foundation. About $105,000. Former bids rejected. Address M. Kline, 36 State House, Boston. Noted Dec. 19.

Mass., Haverhill—W. D. Stearns, pres. Y. M. C. A., 75 Main St., receives bids in spring for constructing building. About $150,000.

Mass., Lowell—Auditorium—City applied to State Legislature for authority to build public auditorium as memorial to soldiers and sailors. About $1,000,000. P. D. Thompson, mayor.

Mass., Medford—School—A. York, city solicitor, asked State Legislature to appropriate $250,000 to build school.

Conn., Ansonia—Dormitory—F. A. Cooper, archt., 1024 Main St., Bridgeport, soon receives bids building 2 story, 50 x 80 ft. brick, steel and rein.-con., rein.-con. flooring and concrete foundation, on Central St., for Day Nursery Assn., Central St. About $50,000.

Conn., Fairfield — School — St. Thomas congregation, Boston Post Rd., plans to build 2 story, 62 x 96 ft. brick, concrete and steel, rein.-con. flooring and concrete foundation. About $65,000. W. J. Blake, pastor. W. Schmidt, 1188 Main St., Bridgeport, archt.

Conn., Hartford — Office — Connecticut Genl. Life Insurance Co., 64 Pearl St., had plans prepared by J. G. Rogers, archt., 40 East 22nd St., New York City, for ten 5 and 6 story, steel and brick offices, rein.-con. flooring, concrete foundation. Noted Jan. 9.

Conn., Manchester—Hotel—T. C. Hardie, 1088 Broad St., Hartford, plans to build a 50 room brick and rein.-con., rein.-con. flooring and concrete foundation on Main and North School Sts., here. About $75,000.

Conn., Milford—Fire House—Town Fire Bd. plans to build 2 story, brick and rein.-con., concrete foundation, on Bway.

Conn., New Haven—High School—Bd. Educ. purchase site on Whaley Ave. and Fountain St., Westville Dist. and plans to build high school. About $150,000.

Conn., New London—Theatre—H. R. Brewster, archt., 116 Nassau St., New York City, receives bids about Feb. 15, building brick and concrete, rein.-con. flooring and concrete foundation on Bank St., for C. H. Dugy and W. F. Murphy, 143 Bank St. About $125,000.

N. Y., Brooklyn—Nurses' Home—Dept. Pub. Charities having plans prepared by F. J. Helmle, archt., 190 Montague St., for 4-story, 50 x 100 ft., steel and brick, concrete foundation at Kings Co. Hospital, Clarkson St. and Alabama Ave. About $75,000.

N. Y., Brooklyn—School—Coney Island Talmud Torah, Inc., 2861 West 32nd St., Coney Island, having plans prepared by B. W. Dorfman, archt., 26 Court St., for 3-story, 56 x 100 ft., steel and brick, concrete foundation, on 31st St. between Mermaid and Neptune Aves. About $50,000. M. Friedman, pres.

N. Y., Long Island City—Schools—Bd. Educ., 500 Park Ave., New York City, having plans prepared by C. B. J. Snyder, archt., Municipal Bldg., New York City, for 3-story, 105 x 108 ft., steel and brick, on Colonial Ave. between Livingston and Meteor Sts. About $200,000.

N. Y., New York—Hospital—Beth Israel Hospital, 70 Jefferson St., having plans prepared by L. Abramson, archt., 220 5th Ave., for 16-story, 175 x 200 ft., steel and brick, concrete foundation, 16th and 17th Sts. and Livingston Pl. About $1,000,000.

N. Y., New York—Hospital—Bronx Hospital, Fulton Ave. and 169th St., had plans prepared building additions and altering four 4 story brick and steel buildings. About $50,000. L. Abramson, 220 5th Ave., archt.

N. Y., New York—Office—Estate of R. S. Clark, 19 Liberty St., J. M. Knox, owner, having plans prepared by A. C. Jackson, archt., 25 Madison Ave., for 4-story, 25 x 100 ft, brick and steel, concrete foundation, at 89 Maiden Lane. About $50,000. Natl. Surety Co., 115 Bway., lessee.

N. Y., New York—Office and Loft—Berth Levi & Co., 42 Bway., purchased site at 35-37 Frankfort St., and plans to build 50 x 100 ft., steel and brick, concrete foundation.

N. Y., Poughkeepsie—Hospital—State Hospital plans to build 1-story, 35 x 350 ft., frame hospital, concrete foundation, for tubercular patients. About $95,000.

N. Y., Syracuse—Hospital—Onondaga Hospital Assn., c/o H. D. Phoenix, archt., Union Bldg., had plans prepared for 4-story brick, concrete flooring, at 415 West Onondaga St. About $100,000.

N. Y., Utica—Laboratory—State Hospital Comn., Albany, plans to build 2-story, 44 x 60 ft., brick, at State Hospital here. About $50,000.

N. J., Newark—Store—See "Industrial Works."

N. J., Trenton—Assembly Hall—State plans to build on site adjoining state house. About $250,000. F. H. Bent, Bound Brook, archt.

N. J., Trenton—Hotel—L. L. Woodward, pres. Chamber of Commerce, and associates, plan to build. About $1,000,000.

N. J., Trenton—School—City plans to build 3 story on Bellevue Ave. About $200,000. T. A. Klemann, 239 Bellevue Ave., archt.

N. J., Union Hill—School—Bd. Educ. had plans prepared by J. Lugosch, archt., 21 Bergenline Ave., for 3-story, 105 x 192 ft., brick and concrete, on Hudson Ave. between 1st and 2nd Sts. About $200,000. A. Reisenberg, pres.

Buildings (Continued)

Pa., Phila.—Bank—Market St. Title & Trust Co., 52nd and Market Sts., having plans prepared by W. L. Blithe, archt., 608 Chestnut St., for 2 story, 30 x 120 ft. brick and terra cotta addition. About $75,000. A. Wilson, pres. Noted July 25.

Pa., Phila.—Store—L. W. Hirsh Co., 923 Market St., had plans prepared by F. E. Hahn, archt., 1112 Chestnut St., remodeling 5 story, 46 x 200 ft. building adjoining present store into addition for its own use. About $250,000.

Md., Baltimore—Church—C. T. Bagby, 818 Fidelity Bldg., and associates, plan to rebuild 7th Baptist church, North Ave. and St. Paul St., recently destroyed by fire. About $85,000.

Md., Baltimore—Dance Hall, etc.—R. A. Lychon, c/o Baldwin Locomotive Wks., Broad and Spring Garden Sts., Phila., plans to build dance hall, skating rink, gymnasium and natatorium on North and Maryland Aves., here. Cost between $150,000 and $200,000.

Md., Texas—Almshouse—Comrs. Baltimore Co. (Towson) plan to build steel, concrete and brick almshouse to replace one recently destroyed by fire. About $100,000. W. F. Coughlan, Towson, pres.

Md., Westminster—Chapel and Dormitory—Western Maryland Theological Seminary plans to build 3 story, 48 x 105 ft., concrete and brick, concrete foundation. About $50,000. H. L. Elderdice, pres.

Va., Roanoke—Office—See "Miscellaneous."

N. C., Gastonia—Y. M. C. A. plans to construct building here. About $100,000.

N. C., Statesville—Hotel—J. S. Hammond having plans prepared by W. H. Peeps, archt., 222 Latta Ave., Charlotte, building here. Cost between $125,000 and $150,000.

S. C., Columbia—Temple—Negro Grand Lodge, Knights of Pythias, plans to build here. About $50,000. R. S. Wilkinson, Orangeburg, chn.

Ala., Bessemer—High School—City purchased site on North Side and plans to build high school. About $150,000.

O., Cleveland—Church—Christian Scientists of Lakewood, plan to build 2½-story, brick, rein.-con. and steel, on Arthur and Detroit Aves. About $75,000.

O., Cleveland—Club House—W. S. Ferguson Co., archts., 1900 Euclid Bldg., receive bids about Apr. 15, building 3-story, 80 x 130 ft. brick steel and rein.-con., rein.-con. flooring and concrete foundation, on 79th St. and Euclid Ave. for Woodmen of the World. About $200,000.

O., Cleveland — Exchange — Cleveland Telephone Co., West 3rd St. and Champlain Ave., plans to build brick, rein.-con. and steel.

O., Cleveland—Hospital—Bd. Pub. Welfare plans to build 4-story, brick, rein.-con. and steel addition to hospital, rein.-con. flooring, on Scranton Rd. and Valentine St. About $300,000. F. H. Betz, 604 City Hall, archt.

O., Dayton — Salesroom — Frank Hill Smith Co., Inc., East 3rd St., plans to build 4-story, 50 x 200 ft. rein.-con., concrete flooring and concrete foundation on East 3rd St. About $50,000.

O., Wellsville—Restaurant, etc.—Amer. Sheet & Tin Plate Co., 30 Church St., New York City, plans to build 80 x 120 ft. restaurant, locker, bath-rooms, etc., on Wells Ave., here. B. J. Ross, Wellsville, genl. supt.

Ind., Anderson—Bank and Office—Anderson Banking Co., 10th and Meridian Sts., plans to build 4 or 5 story, 72 x 144 ft. About $150,000.

Ind., South Bend—Social Center—Notre Dame University plans to build here for students. About $50,000.

Mich., Detroit — Auditorium — Council passed resolution instructing Corporation Council to start proceedings to condemn property on river front at Jefferson and Crane Aves. for civic auditorium.

Mich., Detroit—Church—St. Hyacinth congregation, McDougall and Frederick Aves., plans to build 1-story, 110 x 220 ft. brick, rock foundation. About $225,000. E. Brielmaier & Sons, 111 Mason St., Milwaukee, Wis., archts.

Mich., Detroit—Commerce—Bd. Commerce, Lafayette Blvd., plans to build 4-story, 100 x 120 ft. concrete, brick and steel addition on Lafayette Blvd. and Wayne St. J. J. Crowley, pres.

Mich., Grand Rapids—Grade School—Bd. Educ. having preliminary sketches made by H. H. Turner, archt., 24 Division St., for brick school. About $100,000. H. M. Morrill, City Hall, secy.

Mich., Grand Rapids—High School—Bd. Educ. having plans prepared by H. Turner, archt., 24 Division St., building Creston High School rein.-con., brick and steel. About $350,000. Noted Dec. 19.

Mich., Grand Rapids—School—Bd. Educ. having preliminary sketches prepared by H. H. Turner, archt., 24 Division St., for addition. About $100,000. H. M. Morrill, City Hall, secy.

Mich., Hancock—Church and Parish House—First Congregational Church, Houghton, had plans prepared by H. T. Liebert, archt., 632 1st Natl. Bank Bldg., Milwaukee, Wis., for 2-story, 40 x 100 ft., here. About $75,000. G. L. Christensen, Houghton, secy.

Ill., Chicago—Chapel—University of Chicago, 134 South La Salle St., had plans prepared by B. Goodhue, archt., Boston, Mass., building on University grounds. Cost between $1,500,000 and $2,000,000.

Ill., Chicago—Church—Faith Presbyterian congregation, 914 Pine Ave., Austin, had plans prepared by R. W. Ermeling, archt., 155 North Clark St., building 1 story, 65 x 90 ft. brick, brick foundation on Pine Ave. and Augusta St. About 50,000.

Ill., Chicago—Hospital—University of Chicago, 134 South La Salle St., plans to build laboratory and hospital near Cook Co. Hospital on west side, also hospital on south side, cost $400,000 each; divinity and administration buildings, $250,000 each.

Ill., Chicago—Station—R. H. Ashton, regional dir. of railroads, after conference with City Officials, announced that plans have been completed for resumption of work on new Union Station. Work which will be started in future includes building viaducts over railroad yards on Harrison, Polk and Taylor Sts., Canal St. from Polk to Taylor Sts. and from Harrison to Polk Sts.; depression of railroad tracks between 12th and Van Buren Sts., and their re-arrangement to provide foundation room for viaducts; elevation of Canal St. from 12th to Taylor Sts.; 1st unit of proposed Burlington R. R. terminal; portion 12th St. viaduct. Entire project involves expenditure of about $25,000,000 of which about 20% has already been put in preliminary work. About $5,000,000 will be expended during coming year.

Ill., Chicago—Theater—Postle & Fischer, archts., 140 South Dearborn St., soon receives bids for altering and improving 65 x 190 ft. building at 55-59 West Monroe St., into motion picture theater for H. C. Moir, Morrison Hotel.

Wis., Richland Center—Bank—First Natl. Bank plans to build brick and stone. About $50,000.

Ia., Cedar Rapids—Dormitory and Science Hall—Coe College, 1220-1st Ave., plans to build on 1st Ave. between 12th and 13th Sts. Cost between $500,000 and $600,000. J. A. Marquis, pres.

Ia., Dubuque—School—Bd. Educ. receives bids about June 1, building 3 story. About $465,000. A. Harris, supt. R. Royer, Flat Iron Bldg., Urbana, archt.

Ia., Mt. Pleasant—High School—Bd. Educ. had plans prepared by G. L. Lockhart, archt., 391 Endicott Bldg., St. Paul, Minn., remodeling Y. M. C. A. building into school. About $80,000. Noted Nov. 7.

Ia., Muscatine—Biological—City having plans prepared building new biological building to replace one destroyed by fire. About $60,000.

Ia., Newton—Bank—First Natl. Bank receives bids in spring building brick and stone. About $50,000. Proudfoot, Bird & Rawson, 610 Hubbell Bldg., Des Moines, archts.

Ia., Waterloo—Church—First Presbyterian congregation, 102 Independence Ave., having sketches prepared by C. P. Shockley, archt., 719 Black Bldg. About $75,000. J. R. Macartneu, pastor.

Minn., Le Sueur—Church—St. Ann's congregation having plans prepared by W. F. Keefe, archt., 1192 Portland Ave., St. Paul, building 1 story, 65 x 180 ft. About $100,000.

Minn., Minneapolis—Exchange—Northwestern Telephone Exch. Co., 5th St. and 3rd Ave., S., soon lets contract building 11 story, 132 x 147 ft., rein.-con. and brick plant on 3rd Ave. S., between 4th and 5th Sts. Hewitt & Brown, 716 4th Ave. S., archts.

Minn., Pine Island—High School—Bd. Educ. having plans prepared by Stebbins & Haxby, archts., 445 Auditorium Bldg., Minneapolis, for 2 story, 60 x 106 ft. rein.-con. and brick. L. L. Cornwell, clk.

Minn., Rochester—Hotel—Kahler Roberts Corp. having plans prepared by F. H. Ellerbe, archt., 692 Endicott Bldg., Minneapolis, for 8 story, 50 x 140 ft.

Minn., St. Paul—Pavilion—Minnesota Agricultural Society, State Fair Grounds, plans to build rein.-con. and brick live stock pavilion. About $300,000. T. H. Canfield, secy. and mgr.

Minn., Sherburn—Church—St. Luke's congregation having revised plans prepared by W. F. Keefe, archt., 1192 Portland Ave., St. Paul, building 1 story, 50 x 160 ft. About $50,000.

Kan., Anthony—High School—W. Mampe, archt., 529 Sheidley Bldg., Kansas City, Mo., rejected bids building 3-story, 71 x 128 ft. brick, stone or terra cotta, rein.-con. flooring, for Bd. Educ. Cost, $85,000. About $50,000 available, election soon to vote on $35,000 additional bonds to finance project. Noted Oct. 31.

Neb., Kearney—Hospital—City plans to build hospital. About $100,000.

Neb., Lincoln—School—School Dist., 15th and N Sts., receives bids in April building 2 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, on 33rd and Vine Sts. About $61,000. Fisk & Meginnis, Bankers Life Bldg., archts.

Neb., Lincoln—School—School Dist., 15th and N Sts., receives bids in fall building on 22nd and Lake Sts. About $75,000. Fisk & Meginnis, Bankers Life Bldg., archts.

Mo., Columbia—Gymnasium, etc.—State University applied to State Legislature, Jefferson City, for appropriation to construct gymnasium, woman's and home economics buildings and power house here.

Mo., St. Louis—Bank—Third Natl. Bank, Bway. and Olive St., receives bids about Feb. 1, building 2 story, 41 x 127 ft. rein.-con. and steel annex, rein.-con. flooring, concrete foundation. About $100,000. G. Brueggeman, 902 3rd Natl. Bank Bldg., archt.

Tex., Galveston—Bank—City Natl. Bank, 2223 D St., having plans prepared by Weir, Alfred & Co., archts., Chicago, building 50 x 120 ft. rein.-con. and brick on Market and 22nd Sts. About $100,000.

Tex., Wichita Falls—Hotel—Chamber of Commerce plans to build 250 room. About $600,000.

Okla., Garber—Hotel—L. Moran soon lets contract building 3 story, 75 x 116 ft., brick and stone. About $60,000. R. W. Shaw, Beck Bldg., Enid, archt.

N. M., Silver City—Bank and Hotel—Silver City Natl. Bank plans to build 4 story.

Ariz., Ajo—School—School Trustees Ajo School Dist. No. 15 soon let contract building 2-story, hollow tile, rein.-con. flooring. About $195,000. Lescher & Kibbey, Bank of Arizona Bldg., Phoenix, archts.

Ariz., Phoenix — Courthouse — Bd. Supervs. Maricopa Co. plan election to vote on $250,000 bonds to build court house.

Cal., Los Angeles—School—Bd. Educ., 731 Security Bldg., having plans prepared by Allison & Allison, archts., 1405 Hibernian Bldg., for 2-story, brick, rein.-con. flooring, concrete foundation on East 7th St. About $90,000.

Cal., Ocean Park—Bath House—Thompson Co. plans to build on ocean front and Raymond Ave. About $50,000.

N. S., Halifax—Theatre—J. J. Allen, Richmond and Victoria Sts., Toronto, having plans prepared for brick and steel. About $150,000.

Buildings (Continued)

N. B., St. John—Schools—School Bd. plans to build 2 schools. About $175,000. R. J. Leavitt, secy.

N. B., St. John—Theatre—Jule and J. J. Allen, Richmond and Victoria Sts., Toronto, had plans prepared building here. About $125,000.

Man., Brandon — Asylum — Dept. Pub. Wks., Winnipeg, Man., plans to build addition to asylum here. About $500,000.

Sask., Yorkton — Court House — Dept. Pub. Wks., Ottawa, Ont., plans to build here. About $100,000.

Alta., Vermilion—Dormitory—School of Agriculture plans to build. About $150,000. R. Blakey, Parliament Bldg., Edmonton, archt.

B. C., New Westminster—Y. W. C. A. Columbia St., plans to construct building. About $50,000. J. R. Gilley, mgr.

BIDS DESIRED

Mich., Detroit—School—Until Jan. 23, (change of date) by Bd. Educ., 50 Bway., building 2 story, 102 x 223 ft., rein.-con., brick and steel, rein.-con. floors, concrete foundation, on Emerson Ave. south of Jefferson Ave. About $275,000. Malcolmson & Higginbotham, Penobscot Bldg., archts. Noted Dec. 25.

Neb., Eagle—School—Until Jan. 30, by H. K. Frantz, dir. bd. educ. building 1 story, 120 x 120 ft. for Dist. No. 104. About $85,000. E. Davis, Security Mutual Life Bldg., Lincoln, archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

R. I., Providence—Office—See "Industrial Works."

★**Conn., Bridgeport**—Bank—City Natl. Bank, 103 Wall St., let contract for altering and building addition to 4 story, steel and marble bank, concrete foundation, on Main and Bank Sts., to T. J. Pardy Constr. Co., 15 Fairfield Ave., cost plus percentage basis. Noted June 27.

★**Conn., Bridgeport** — Bank — Newfield Bank & Trust Co., 1360 South Main St., Stratford, let contract building 2 story, 50 x 75 ft. brick, steel, marble and tile, concrete foundation, on Stratford Ave., to Casey & Hurley, 120 Pequonnock St. About $50,000. Noted Aug. 29.

★**N. Y., Brooklyn**—Theatre—H. Weingarten, 1901 Bway., will build 1-story, 120 x 171 ft., steel and brick, concrete foundation, on Fulton St. and Howard Ave. About $70,000. Work will be done by day labor. Noted Jan. 2.

★**N. Y., Buffalo** — Store — Oppenheim Collins, 35 West 34th St., New York City, let contract altering 6 story, steel and brick, on Main St. here, to C. A. Cowan, 30 East 42nd St., New York City. About $55,000.

★**Pa., Phila.**—Fire and Police Stations—City let general contract building 1 and 2 story, brick and stone fire and police stations, power house and stables, on 24th and Ritter Sts., to F. G. Stewart, 1619 Sansome St., $304,245; heating, C. E. Monday & Co., 1318 Olive St., $33,600; electrical work, Electro Constr. Co., Commercial Trust Bldg., $12,950. Noted Jan. 2.

★**Pa., Pittsburgh** — Store — Oppenheim Collins, 35 West 34th St., New York City, let contract altering 8 story, steel and brick, on Penn Ave., to C. A. Cowan, 30 East 42nd St., New York City. About $50,000.

★**Ga., Lyons**—Court House—Comrs. Toombs Co. let contract building court house, recently destroyed by fire, to F. H. Heffner, Atlanta. About $50,000. Noted Dec. 26.

★**O., Cleveland**—Church—St. Casimir congregation, 8223 Sowinski Ave., let contract building 2-story brick, steel and rein.-con., concrete flooring on East 82nd St. and Pulaski Ave., to C. A. Carson Co., 6408 Euclid Ave. About $250,000.

★**Ohio, Cleveland**—Hospital—Co-operative Hospital Assn., East 71st St. and Carnegie Ave., let contract building 6-story, 159 x 206 ft., rein.-con., brick and steel, rein.-con. flooring, to Western Reserve Constr. Co., c/o owners. About $1,500,000.

★**O., Columbus**—Loan and Office—Railroad Employees Building & Loan Assn. let contract building 2-story, 32 x 100 ft. brick and rein.-con., concrete foundation, on East Broad St., to E. H. Latham Co., 8 East Long St. About $80,000. Noted May 9.

★**Mo., St. Louis**—Business—A. F. Seested, care of Kansas City Star, Grand Ave., Kansas City, let contract building 1 story, 116 x 165 ft. brick and stone on 24th and McGee Sts., to G. E. Bowling & Sons, 907 Sharp Bldg., Kansas City. About $50,000.

★**Calif., Los Angeles**—Club—**Auto Club** of South California, 1344 **Figuero St.**, let contract building 2 story brick addition, to C. J. Kuback Co., Merchants **Natl. Bank** Bldg. About $50,000.

★**N. S., Halifax**—Administration, etc.—Dept. Pub. Wks., Ottawa, Ont., let contract constructing administration and surgical buildings, neurological ward, nurses' home, officers' ward and 2 orthopaedic active treatment wards, to Rhodes, Currie Co., Ltd., Amherst, N. S. About $551,536.

★**Ont., Ft. William**—Office—Canadian Car & Fdry. Co. let contract, to E. G. Penniman, Graham & Horn Blk. About $50,000.

Federal Government Work

PROPOSED WORK

Mass., Boston—Piers—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build Piers 4, 4a, 5 and 6; Spec. 3755. About $400,000.

Mass., Boston—Repairing Wharf—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans; Spec. 3751. About $9500.

Conn., New Haven—Repairing Yale Boat House—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans; Spec. 3761. About $4000.

Conn., Norwalk—Improving Channel—River & Harbor Comn., Wash., D. C., appropriated $88,000 to dredge and improve channel and harbor.

N. C., Fayetteville—Extending and Developing Artillery Camp—Constr. Div., War Dept., Wash., D. C., plans to extend and permanently develop artillery camp.

N. Y., New York—Piping and Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install in power house; Spec. 3759.

N. Y., Rockaway—Completing Magazine Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3754. Bids will be received at local navy yard.

Pa., Ft. Mifflin—Water Pipe Line—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3764. About $70,000.

Md., Annapolis — Foundations — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build foundations for steamship and navigation building; Spec. 3760. About $75,000.

D. C., Wash.—Turbo Alternators—Bureau Yards & Docks, Navy Dept., Wash., plans to install; Spec. 3757. About $16,000.

Ga., Columbus—Rifle Corp. Camp, etc.—Constr. Div., War Dept., Wash., D. C., plans to establish rifle, machine gun training and tank corps camp; cost plus percentage basis will run into millions.

Fla., Key West—Improving Waterfront—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans; Spec. 3762. About $1,670,000.

Fla., Pensocola—Concrete Road—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3758. About $10,450. Bids will be received at local navy yard.

Fla., Pensacola—Fence and Gates—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3756. About $7000.

Miss., Gulfport—Toilet and Laboratory—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3763. About $3500. Bids will be received at local navy yard.

Tenn., Memphis — Boilers — Mississippi River Comn., 1st and 2nd Dists., Custom House, rejected all bids received Oct. 21 for boilers for hydraulic grader No. 1820. Noted Oct. 10.

Tenn., Memphis — Turbines — Mississippi River Comn., 1st and 2nd Dist., Custom House, rejected all bids received Oct. 21, same being in excess of appropriation.

Ky., West Point—Extending and Developing Artillery Camp—Constr. Div., War Dept., Wash., D. C., plans to extend and permanently develop present artillery camp.

Ill., Great Lakes—Paint and Storage Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build; Spec. 3753. About $12,000.

Colo., Denver—Drainage—Denver Civic & Commercial Assn. asked Government to proceed with San Luis Valley drainage project. About $20,000,000 may be expended for project.

Ore., Klamath Falls—Road—H. M. Shipe of Bureau of Indian Affairs, Wash., D. C., and W. G. West, supt. Klamath Indian Reservation, Klamath, will ask U. S. Government to appropriate $25,000 to build main road running north and south through Klamath Indian Reservation.

BIDS DESIRED

Mass., Chelsea—Kitchen Equipment—Until Feb. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3730. About $6500; $10 deposit required for plans and spec. Noted Jan. 2.

R. I., Newport—Double Quarters for Officers—Until Feb. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3603. About $12,000. Noted Oct. 31.

N. Y., Buffalo—Metal and Glass—Until Feb. 10, by Lighthouse Supt., furnishing metal work for 3rd order helical bar lantern, including plate glass, advertised in this issue.

N. Y., Ft. Lafayette—Dredging—Until Feb. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3579. About 26,000; $10 deposit required for plans and spec. Former bids rejected. Noted Dec. 5.

Pa., Phila.—Water Towers, Pump and Tank House Equipment—Until Feb. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building and installing at Grays Ferry Rd.; Spec. 3682. About $17,000; $10 deposit required for plans and spec. Noted Nov. 28.

Md., Baltimore—Foundation and Rip Rap—Until Mar. 1, by Lighthouse Supt., building concrete foundation and placing rip rap at Tangier Sound Light Sta., Va.; advertised in this issue.

Md., Indianhead—Additional Buildings, etc.—Until Jan. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building additional buildings and extensions at Naval Proving Ground; Spec. 3745; $20 deposit required for plans and spec.

D. C., Anacostia—Heating Hangar—Until Jan. 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3748. About $12,000; $10 deposit required for plans and spec.

D. C., Wash.—Bridge—Until Feb. 11, by by Dist. Comrs., Dist. Bldg., building concrete encased steel plate girder bridge on South Dakota Ave. over tracks of Baltimore & Ohio R.R. L. Brownlow, comr.; advertised in this issue.

Va., Hampton Roads—Extending Pneumatic Tube System, etc.—Until Jan. 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Naval Operating Base; Spec. 3658. About $30,000; $10 deposit required for plans and spec. Noted Jan. 2.

Va., Norfolk—Coal Storage and Reclaiming Building—Until Jan. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; Spec. 3714. About $20,000. Noted Dec. 12.

Wis., Superior—Dredging—Until Mar. 1, by F. A. Pope, engr. for Duluth-Superior Harbor, dredging for anchorage basin at Superior entry of Duluth-Superior Harbor. About $360,000 appropriated for project.

Tex., North Ft. Worth—Gas Holders—Removing System, etc.—Until Jan. 27, (change of date) by Bureau Yards & Docks, Navy Dept., Wash., D. C., for 5 gas holders and CO_2 removal system; Spec. 3594. About $120,000; $10 deposit required for plans and spec. Noted Jan. 9.

Federal Government Work (Continued)

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Me., Ft. Fairfield—Post Office and Custom House—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 13 (1) limestone (2) sandstone, from J. W. Burrowes, 112 Preble St., Portland, (1) $73,885; R. S. Woodbury, Boston, Mass., (1) $77,499, (2) $77,999; J. Munroe, 159 Washington St., N., North Attleboro, Mass., (1) $78,384, (2) $81,000. Noted Dec. 5.

★**N. H., Portsmouth**—Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing 2 cranes in machine shop extension, to Cleveland Crane & Eng. Co., Wickliff, O., $31,325 (150 days). Noted Dec. 5.

★**N. H., Portsmouth**—Extension to Machine Shop—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building extension to machine shop No. 80, to Levering & Garrigue Co., 552 West 23rd St., New York City, $122,906 (130 days). Noted Dec. 12.

★**Mass., Hingham**—Railroad Track—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to C. M. Leach, P. O. Box, 2285, Boston, $76,186. Noted Dec. 19.

★**Mass., Weymouth** (Boston P. O.)—Dredging—U. S. Eng. Office, Boston, let contract dredging at Fore River, to Boston Dredging Co., 172 Condor St., Boston, $176,000.

★**N. Y., Brooklyn**—Kitchen Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing in building E, Nurses' Quarters, to A. Peck & Co., 208 Randolph St., Chicago, $7724. Noted Dec. 12.

N. Y., Fire Island—Barracks—Local Navy Yard received bids building at U. S. Naval Radio Sta., from H. S. Roberts Co., 1123 Bway., $44,500 (60 days) (no fire protection included); J. K. Turton Corp., 101 Park Ave., $54,468 (60 days) (kitchen equipment and fire protection not included); Northeastern Constr. Co., 225-5th Ave., $57,703 (60 days). All contractors of New York City. Noted Jan. 2.

★**N. Y., Ft. Lafayette**—Lighting System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to United Electric Co., 101 Park Ave., New York City, $4250. Noted Jan. 2.

★**N. Y., Iona Island**—Quarters for Marine Officers—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Ammunition Depot, to Brooklyn Impvt. Corp., 1607 45th St., Brooklyn, $13,936 (85 days). Noted Dec. 19.

N. Y., New York—Altering Lobby—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 10, altering lobby in post office here, from B. Knopp, 431 West 41st St., $5094 (30 days); N. B. Smith, 417 East 34th St., $5780 (120 days); I. Langner, 700 Trinity Ave., $5878 (60 days). Noted Dec. 26.

★**N. Y., New York**—Dredging—U. S. Eng. Office, Whitehall Bldg., New York City, let contract dredging and removing rock in East River, to E. Bregmann, New York City, $280,170.

★**N. Y., New York**—Electric Traveling Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing in machine and electric shop, to Bedford Fdry. & Machine Co., 1107 5th St., Bedford, Ind., $17,781. (180 days). Noted Dec. 12.

★**N. Y., New York**—Fire Alarm and Watchman's Signal System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to Hamilton Elevator Co., Inc., 357 3rd St., Brooklyn, $5375 (60 days). Noted Nov. 28.

★**N. Y., New York**—Flooring—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract for wood block flooring in building No. 4, to Fleming, O'Brien & McEntegart, 116 Broad St., New York City, $45,000 (45 days). Noted Dec. 5.

N. Y., Sayville—Transformer House and Oil Tank—Local Navy Yard received bids building here, (1) work, complete; (2) transformer house, complete; (3) concrete underground oil storage tank; (4) gate house, complete; (5) transformers from E. L. Phillips & Co., 50 Church St., New York City, (1) $34,648; (2) $14,647.50; (3) $2362.75; (4) $1023.75; (5) $16,614, (65 days).

Barney-Ahlers Constr. Corp., 110 West 40th St., New York City, (1) $32,450, (45 days); (2) $27,340, (5 days); (3) $3500, (30 days); (4) $1500, (15 days); (5) $4000; deduction if Government furnishes transformer, $4,000.

North Atlantic Eng. Corp., 150 Nassau St., New York City, (1) $31,777, (45 days); (2) $11,477, (45 days); (3) $2494, (35 days); (4) $500, (15 days); (5) $17,400, (45 days).

D. Hill, 1455 McCormick Ave., Ozone Park, N. Y., (1) $34,619 (65 days); (2) $13,950, (45 days); (3) $2250, (30 days); (4) $975, (15 days); (5) $17,444, (65 days).

Hennebique Constr. Co., 1170 Bway., New York City, (1) $26,905, (75 days); (2) $22,855, (75 days); (3) $2300, (28 days); (4) $1150, (14 days); (5) $4800, (75 days); $4000 additional if oil-switch panels are used.

Neiman & Luth, 33 West 42nd St., New York City, (1) $34,173, (45 days), for buildings, transformers, 30 days additional; (2) $26,395, (45 days); (3) $1990, (15 days); (4) $988, (10 days); (5) $4800.

P. Guthy, Inc., 926 Bway., New York City, (1) $27,433, (150 days); (2) $12,749, (45 days); (3) $2187, (12 days); (4) $997, (10 days); (5) $11,500, (150 days).

H. S. Roberts & Co., 1123 Bway., New York City, (1) $29,200, (75 days). Noted Dec. 12.

★**N. Y., South Brooklyn**—Locomotive House—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to P. Guthy, Inc., 926 Bway., New York City, $23,374 (57 days). Noted Oct. 3.

N. Y., Waterloo—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 8, (a) limestone (b) sandstone, from T. H. McHale, Cahill Bldg., Syracuse, (a) $78,652 (b) $78,652; Rangeley Constr. Co., 405 Lexington Ave., New York City, (a) $75,480; G. B. Dickison, Union Bldg., Syracuse, (a) $73,700 (b) $74,000; Dreher Constr. Co., Marquette Bldg., Chicago, (a) $62,300; Wills Egelhof Co., 101 Park Ave., New York City (a) $72,330. Noted Dec. 5.

★**N. J., Cape May**—Additional Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Air Sta., to Post & McCord, 101 Park Ave., New York City, $128,200 (135 days). Noted Jan. 9.

★**N. J., Cape May**—Hospitals—Constr. Div., War Dept., Wash., D. C., let contract building at Hospital No. 11, to Caldwell Wingate, New York City; cost plus percentage.

★**N. J., Denmark**—Roofing for Standpipe—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to C. Meads & Co., 38 Park Row, New York City, $2717 (60 days). Noted Dec. 12.

N. J., Vineland—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 10, (1) limestone (2) sandstone, from T. H. Mitchell, 207 Lake St., Salisbury, Md., (1) $78,880 (2) $81,180; F. A. Havens Co., 845 North 19th St., Phila., (1) $78,881 (2) $79,781; Rangeley Constr. Co., 405 Lexington Ave., New York City (1) $77,547. Noted Dec. 5.

N. J., Woodbury—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 7, work complete, from T. H. Mitchell, 207 Lake St., $63,444; J. B. Best, Woodbury, $69,800; Rangeley Constr. Co., 405 Lexington Ave., New York City, $69,995. Noted Dec. 5.

★**Pa., Phila.**—Coal and Ash Handling Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to Wark Co., 1757 Filbert St., $9435 (60 days).

★**Pa., Phila.**—Kitchen and Mess Hall Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing at League Island, to S. B. Sexton Stove Mfg. Co., 500 West Conway St., Baltimore, Md., $19,947 (60 days). Noted Jan. 2.

Pa., State College—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 9 (limestone) from Wills Egelhof, 101 Park Ave., New York City, $82,653, Wills Ludwick & Co., 34 South 17th St., Phila., $79,779; J. W. Cowper Co., Fidelity Bldg., Buffalo, N. Y., $110,490. Noted Dec. 5.

★**Md., Annapolis** — Storehouse — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Academy, to J. L. Marshall, McLachlen Bldg., Wash., D. C., $80,858 (120 days). Noted Dec. 5.

Government to Dispose of War Stocks

The stock of machinery and engineering materials held by the War Department, but not in actual possession of troops, is shown by a report of the Statistical Division to Brig. Gen. R. E. Wood, director of purchase and storage. This report covers stock at depots, camps and ports and in transit Dec. 1, 1918, and is as follows:

Article	Quantity	
Locomotives, standard-gage:		
Set up, complete	139	
Knocked down, complete	135	
Knocked down, incomplete	5	
Spare parts	100	tons
Locomotives, narrow-gage:		
60 C.M. steam	31	
60 C.M. 50 hp	1	
36-in. gage steam	1	
Cars, standard-gage:		
Box, complete	858	
High gondola, complete	200	
Low gondola, complete	500	
Flat artillery, complete	12	
Tank, complete	87	
Dump, complete	2	
Ballast, complete	152	
Refrigerator, complete	350	
Box, incomplete	100	
High gondola, incomplete	17	
Tank, incomplete	18	
Refrigerator	250	
Cars, narrow-gage:		
Box, complete	65	
Dump	196	
Artillery trucks, complete	100	
Track Material and Fastenings:		
Rails	42,855	tons
Spikes	3,539	tons
Bolts	1,875	tons
Angle and splice bars	1,908	tons
Turnouts and switches	4,374	tons
Miscellaneous track material	2,378	tons
Pipe and fittings	9,444	tons
Machinery:		
Hoisting engines	143	
Engines	233	
Locomotive cranes	58	
Steam shovels	33	
Boilers	276	
Concrete mixers	166	
Derricks	29	
Road rollers	68	
Saw mills	66	
Gantry cranes	3,601	tons
General machinery, miscellaneous	6,488	tons
Shapers	722	tons
Miscellaneous:		
Miscellaneous engineer supplies	1,771	tons
Miscellaneous paint, oils, turpentine and painter supplies	942	tons
Miscellaneous electrical material	772	tons
Miscellaneous roofing paper and felt	69,138	rolls
Miscellaneous wall board	638	tons
Miscellaneous copper wire	1,030	tons
Miscellaneous carbide	1,014	tons
Miscellaneous floating derrick	77	tons
Steel Products:		
Beams	1,166	tons
Sheets, corrugated	280,263	shts.
Barbed wire	13,664	tons
Plain wire	736	tons
Angle posts	238,897	
Screw posts	1,592	tons
Steel shelters	3,002	
Wire netting	378	tons
Steel tanks, water, gas	1,468	tons
Steel plates	245	tons
Steel rope, hydrants, etc	546	tons
Miscellaneous	6,999	tons
Wagon Transportation:		
Limber and caisson	210	
Dump	155	
Tool spring	179	
Chess	590	
Ponton	449	
Brown type	89	
Escort	45	
Autos, trucks, trailers, tractors	6	
Explosives	984	tons
Lumber	11,785,284	feet

It is also announced that the machinery of the Surplus Stocks Division at Washington has been decentralized as far as possible and the country has been divided into 13 zones, to facilitate the work as far as possible.

Federal Government Work (Continued)

★**Md., Baltimore**—Hospital—U. S. Government let contract building additions to U. S. General Hospital No. 7, Evergreen Junior, Charles St. Ave., to J. H. Miller, Inc., Eutaw and Franklin Sts. About $500,000. Noted Jan. 9.

★**Md., Indianhead**—Annex to Dispensary—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to De Kimpe Constr. Co., Dispatch Bldg., Union Hill, N. J., $25,000 (150 days). Noted Jan. 2.

★**Md., Indianhead**—Freight Station—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract to De Kimpe Constr. Co., Dispatch Bldg., Union Hill, N. J., $12,900 (100 days). Noted Dec. 19.

★**D. C., Bellevue**—Railroad—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Hyde & Baxter, 711 13th St., N. W., Wash., $23,875 (40 days). Noted Jan. 9.

★**D. C., Wash.**—Barracks—Constr. Div., War Dept., Wash., let contract building baracks for officers and quarters for men, to Weller Constr. Co., 816-14th St. About $60,000.

D. C., Wash.—Bridge—Dist. Comrs., Dist. Bldg., received bids building bridge on Concord Ave. between 3rd and 4th Sts., from Deveral Spencer Co., 514 Garrett Bldg., Baltimore, Md., $3.95 for excav., $3.75 for concrete masonry; Continental Contg. Co., 66 Knickerbocker Bldg., Baltimore, Md., $4.75 for excav., $27 for concrete masonry; E. G. Gummel, 36 P St., N. W., $19.75 for excav., $2.75 for concrete masonry. Noted Jan. 2.

★**D. C., Wash.**—Chimneys—Bureau Yards & Docks, Navy Dept., Wash., let contract for 2 radial block chimneys, to M. W. Kellogg Co., 90 West St., New York City, $37,400 (120 days).

★**D. C., Wash.**—Experimental Laboratory—Constr. Div., War Dept., Wash., let contract building brick and hollow tile, at Amer. University, to Weller Constr. Co., 816-14th St. About $500,000; cost plus percentage basis.

★**D. C., Wash.**—Grease—Dist. Comrs., Dist. Bldg., let contract purchasing grease removed from garbage during January, to C. E. Woodworth, Cincinnati, O. About $10,000.

★**Va., Alexandria**—Electric Traveling Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Manning, Maxwell & Moore, Inc., 119 West 40th St., New York City, $17,857 (75 days). Noted Dec. 19.

Va., Front Royal—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 10, (limestone) from O. Gerlach, Frostburg, Md., $44,700; R. K. Stewart & Son, Farmville, $47,500; Wills Egelhoff, 101 Park Ave., New York City, $58,185. Noted Dec. 5.

★**Va., Norfolk**—Kitchen and Diet Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to L. Barth & Son, 32 Cooper Sq., New York City, $18,248 (40 days). Noted Jan. 9.

Va., Petersburg—Altering Post Office and Custom House—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 13, from J. L. Robinson Constr. Co., 66 Knickerbocker Bldg., Baltimore, Md., $7373; R. J. Stewart & Son, Farmville, $8650; W. P. Thurston Co., Merchants Natl. Bank Bldg., Richmond, $8988. Noted Jan. 2.

Va., Yorktown—Administration Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Jan. 6, from Harrison Constr. Co., Inc., 308 Mechanics Bldg., Petersburg, (1) $420,000 (180 days), (2) deduct $700. Noted Jan. 2.

Ga. West Point—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 13 (work complete) (limestone) from A. Blair, 11 South Lawrence St., Montgomery, Ala., $52,900; G. Becking, Chattanooga, Tenn., $54,722; R. P. Farnsworth, Owensboro, Ky., $55,000. Noted Dec. 5.

★**Fla., Key West**—Photographic Laboratory—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to South Florida Contg. & Eng. Co., Eaton and Elizabeth Sts., $6650 (60 days). Noted Dec. 19.

★**Fla., Miami**—Septic Tank—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Air Sta., to St. John Constr. Co., Townley Bldg., $12,466 (100 days). Noted Jan. 2.

SHAFT—NEW YORK, N. Y.

Bids were received by Public Service Commission, 49 Lafayette St., for completing shaft No. 2 of Route No. 26, Queensboro Rapid Transit R.R. on East 42nd St., from (A) Rice & Ganey, 2786 Bainbridge Ave.; (B) James O'Leary, 929 Peace St., Pelham Manor; (C) Shailer & McCormick, 111 East 42st St.; (D) Dennis E. Conners, 15 West 91st St., $106,650; (E) Powers-Kennedy Contg. Corp., 149 Bway., $109,990; (F) Rapid Constr. Co., Times Bldg., $116,658; (G) Rodgers & Hagerty, Inc., 103 East 125th St., $119,310; (H) P. McGovern & Co., 50 East 42nd St., $120,765; (I) Snare & Triest Co., 8 West 40th St., $123,465; (J) Fraser, Brace & Co., 1328 Bway., 126,240; (K) Henry E. Fox Constr. Co., 81 East 125th St., $130,790; (L) W. J. Dempsey, 103 Park Ave., $137,425; (M) T. J. Waters Co., 271 West 125th St., $150,515; (N) John E. Hughes, 23 Willow Pl., Brooklyn, $112,495 (informal). The unit bids of the lowest 3 bidders were as follows:

	A	B	C
600 cu.yd. earth excavation above M.H.W.	$8.00	$11.00	$12.00
1,450 cu.yd. rock excavation	16.00	17.50	18.00
1,800 cu.yd. concrete masonry	18.00	16.00	20.00
50 cu.yd. protective concrete masonry	18.00	20.00	20.00
5 cu.yd. brick masonry	20.00	40.00	25.00
50 bbl. Portland cement grout	5.00	6.00	8.00
10 cu.yd. broken stone	3.50	5.00	5.00
300 sq.yd. waterproofing—3-ply	2.50	4.00	4.00
200 sq.yd. waterproofing—6-ply	5.00	6.00	5.00
Sewer connection—Drawing B-406 (lump sum)	1,200.00	1,000.00	1,400.00
25 tons riveted steel	150.00	170.00	150.00
82 tons steel beams and shapes	150.00	140.00	150.00
7 tons steel rods and bars	100.00	150.00	150.00
2 tons miscellaneous iron castings	150.00	200.00	150.00
800 sq.ft. steel gratings for ventilation	3.00	3.00	4.00
Support of Queensboro subway (lump sum)	3,000.00	2,000.00	500.00
Superstructure Drawing C-501 (lump sum)	12,000.00	12,000.00	10,000.00
Extended totals	$99,085	$99,305	$105,575

La., Alexandria—Post Office and Court House—J. A. Wetmore, superv. archt., Treas. Dept., Wash., D. C., received bids Jan. 7, extending and remodeling post office and court house, work complete, from W. O'Neil & Son, Faribault, Minn., $84,000; W. D. Lovell, 1415 Southeast 8th St., Minneapolis, Minn., $87,200; A. Blair, 11 South Lawrence St., Montgomery, Ala., $88,071. Noted Dec. 5.

★**Tenn., Memphis**—Levee Work—Mississippi River Comn., Custom House, Memphis, let contract for 175,000 cu.yd. levee embankment in Reelfoot Levee Dist., to J. A Burt, Gunniston, Miss., $71,750. Noted Dec. 5.

O., Fremont—Post Office—J. A. Wetmore, superv. archt., Treas. Dept., Wash., D. C., received bids Jan. 7, (1) limestone, (2) sandstone, from W. D. Lovell, 1415 Southeast 8th St., Minneapolis, Minn., (1) $127,800; Pratt, Unkefer & Co., Minerva, (1) $136,000, (2) $137,000; Ohio Bldg. & Constr. Co., Burnet St. near McMillan St., Mt. Auburn, Cincinnati, (1) $155,900, (2) $157,000. Noted Dec. 5.

★**Ill., Chicago**—Repairing and Recovering Dome—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract repairing and recovering dome on post office here, to W. J. Scown Bldg. Co., 36 West Randolph St., $16,800 (90 days). Noted Jan. 12.

★**Mich., Detroit — Boilers — Lighthouse** Supt. let contract furnishing 2 Scotch type marine boilers for lighthouse tender "Amaranth," to Lake Erie Boiler Wks., 254 Perry St., Buffalo, N. Y. About $28,000. Noted Dec. 12.

Wyo., Cody—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids from J. H. Wiese, City Natl. Bank Bldg., Omaha, Neb., $58,830; C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $65,594; W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., $63,300. Noted Dec. 5.

Ark., Prescott—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 8, from W. D. Lovell, 1415 Southeast 8th St., Minneapolis, Minn., $52,600. Noted Dec. 5.

Tex., Orange—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 9, (limestone) from W. O'Neil & Son, Faribault, Minn., $57,313; W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., $58,650; A. Motschman, Chicago, $61,800; R. P. Farnsworth, Owensboro, Ky., $62,000. Noted Dec. 5.

Colo., Durango—Post Office and Court House—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 9, (1) limestone (2) sandstone, from C. E. Goodhand, Chadron, Neb., (1) $123,214; J. H. Wiese, City Natl. Bank Bldg., Omaha, Neb., (1) $131,616; W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., (1) $151,000 (2) $152,700; C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., (1) $165,300. Noted Dec. 5.

N. M., San Juan—Lavatory Annexes—C. Sells, comr. Indian affairs, Wash., D. C., received bids Jan. 2, building at school here, from W. D. Lovell, 1415 Southeast 8th St., Minneapolis, Minn., $13,400 (120 days); W. MacDonald Constr. Co., Odd Fellows Bldg., St. Louis, Mo., $12,785 (150 days). Noted Dec. 12 under "Wash., D. C."

Ariz., Globe—Post Office and Court House—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Jan. 13, (limestone) from C. E. Goodhand, Chadron, Neb., $105,000; A. Blair, 11 South Lawrence St., Montgomery, Ala., $122,366; R. E. Campbell, Salt Lake City Utah, $127,844. Noted Dec. 5.

Cal., Mare Island (Vallejo P. O.)—Repairing Radio Station—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids for repairing and altering radio station (a) painting powers, (b) replacing present power house by building combination operating and power house, (c) building cottage, (f) installing concrete cesspool and sewerage ejector (work complete) from C. J. W. Koenig, 520 Church St., $13,753; A. H. Vogt, 185 Stevenson St., $14,773; Lange & Bergstrom, 207 Sharon Bldg., $16,654; all contractors of San Francisco. Noted Jan. 9.

Cal., San Diego—Additional Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Jan. 13 building 9 additional buildings at Naval Air Sta., including tile and stucco barracks, students officer's quarters, dispensary, type A and B married officers houses, storehouse and garage, all rein.-con. foundation and flooring, wood roof framing, etc. Noted Dec. 19.

(1) net price and time for work, complete, in accordance with drawings and specifications.

(2) amount to be deducted from (1), if all work specified under "heating" is omitted

(3) unit price per cubic yard for excavating in addition to or deduction from that shown on drawing.

(4) unit price per cubic yard for concrete foundations in place, including all shoring, pumping and forms, in addition to or deduction from that shown on drawings.

(5) unit price per cubic yard for backfill in place, puddled, rammed and compacted, in addition to or deduction from that shown on the drawings from.

H. F. Friedsted Co. 327 So. La Salle St., Chicago, (1) $523,923 (230 days), (2) $9000, (3) $2.50, (4) $19.00, (5) $2.50.

Paschen Bros. Co., 111 West Washington St., (1) $579,000 (230 days), (2) $12,500, (3) $0.75, (4) $12, (5) $0.60.

C. E. Carson Co., 155 North Clark St., Chicago, (1) $658,800 (229 days), (2) $10,000, (3) add $2.00, deduct $1.50, (4) add $15, deduct $12, (5) $0.80.

Cal., South San Francisco—Repairing Radio Station—Mare Island Navy Yard received bids Jan. 8, (a) clipping and painting towers and repairing 1 broken tower, (b) minor repairs to operating house, (c) building 2 double cottages for operators, (d) building 4 room cottage, (e) providing

Federal Government Work (Continued)

suitable sewer system and connecting same to city sewer, (work complete), from C. J. W. Koenig, 520 Church St., $15,992 (60 days); A. H. Vogt, 185 Stevenson St., $15,084; F. Warden, 354 Sussex St., $18,250; all contractors of San Francisco. Noted Jan. 9.

★**Panama, Coco Sola**—Gas Holder—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to R. E. Saxton, care of Naval Air Sta., here, $4350 (70 days).

★**P. R., San Juan**—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to F. B. Rexach, P. O. Box 319, $5900 (30 days).

Miscellaneous

PROPOSED WORK

Developing Property—Braintree, Mass.—Comn. Water-Works & Pub. Lands asked State Legislature to appropriate $200,000 to develop property at and near Haywards Creek, Quincy and Braintree.

Dry Docks and Bulkheads—Tottenville, S. I., N. Y.—Transatlantic Shipbuilding Corp., 95 Liberty St., New York City, had plans prepared by J. M. Carver, engr., 29 Bway., New York City, for large wooden dry docks and bulkheads. About $200,000.

Boilers, Piping, etc.—Utica, N. Y.—State Hospital Comn., Albany, soon receives bids installing in Utica State Hospital. About $75,000.

Steel Tanks—Bayonne, N. J.—Standard Oil Co. of Bayonne, Constable Hook, plans to build 8 steel tanks 115 ft. long, on concrete foundation.

Incinerator—Newark, N. J.—City plans to issue $250,000 bonds to build incinerator. M. R. Sherrard, city engr.

Arch and Grandstand—Pittsburgh, Pa.—City plans to build on Grant St. between 5th Ave. and Diamond St. About $25,000. N. S. Sprague, city engr.

Oil Storage Tanks, etc.—Roanoke, Va.—Texas Co., San Jacinto St. and Rusk Ave., Houston, Tex., plans to install oil storage tank system and build office building. About $60,000.

Bulkheads, etc.—Apalachicola, Fla.—See "Industrial Works."

Dry Dock—Pensacola, Fla.—U. S. Government authorized Bruce Dry Dock Co., South Coyle St., to build 5000 ton dry dock here. The Government will finance the construction, the sum to be repaid by company in installments.

Pier and Freight House—Cleveland, O.—D. & C. Navigation Co., foot East 9th St., will submit plan to City Council for pier and freight house, on lake front. About $350,000. Bids will be received in spring if city approves plans.

Lighting System—Springfield, Ill.—City voted $60,000 bonds for lighting system in business and downtown sections. W. Seeley, city engr.

Machinery—Oshkosh, Wis.—Winnebago Co. plans to spend $6000 for machinery, mostly graders.

Park—Jefferson City, Mo.—Missouri State Game & Fish Dept. plans to improve park. About $30,000. T. Birmingham, comr.

Park, etc.—St. Louis, Mo.—Park Comrs. acquired 140 acre site and plan to build park and vacation resort to include cottages, canoe houses, bathing beaches and athletic fields. N. Cunliff, City Hall, comr.

River Terminal—Helena, Ark.—Terminal Com. plans to build river terminal. About $175,000. S. Straub, chn.

Tunnel — Yakima, Wash. — Naches-Selah Irrigation Dist. voted $75,000 bond to build 3400 ft. tunnel.

Tanks—Crane, Ore.—Standard Oil Co. plans to build three 12 x 30 ft. steel tanks on concrete foundation, 30 x 60 ft. warehouse and 10 x 20 ft. pump house and office, all to be fenced with pickets 12 ft. high.

Transmission Line—Riverside, Cal.—Southern Sierras Power Co. plans to expend $750,000 during 1919 to extend transmission lines, etc. A. B. West, mgr.

Mole—San Diego, Cal.—City having plans prepared building mole or filled pier near present city pier. Government will furnish material for filling mole when harbor is dredged. About $300,000. G. Cromwell, city engr.

Docks—San Juan, P. R.—See "Industrial Works."

BIDS DESIRED

Oils and Greases—New York, N. Y.—Until Jan. 21, by T. J. Brennan, fire comr., furnishing and delivering lubricating oils and greases.

Piping, etc.—Thiells, N. Y.—See "Industrial Works."

BARGE CANAL WORK—ALBANY, N. Y.

Bids were received by W. W. Wotherspoon, supt. pub. wks., Capitol, Albany, Jan. 6th, for completing canal from east guard lock to Genesee River and work in Genesee Valley Park, Erie, Oswego and Champlain Canals, Contr. No. 192, from (A) Brown & Lowe Co., Schnectady; (B) MacArthur Bros Co., 120 Bway., New York City; (C) Mohawk Dock & Dredge Co., Herkimer; (D) James F. Leary Constr. Co., Inc., 311 Cutler Bldg., Rochester, $452,864; (E) Patrick McGovern, 50 East 42nd St., New York City, $478,991. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
86,000 cu.yd. excavation	$1.70	$1.65	$1.76
65 M.ft.b.m. sheeting and bracing	90.00	120.00	100.00
3,600 cu.yd. forming embankment, 1st class	.20	.20	.25
74,700 cu.yd. forming embankment, 2nd class	.15	.16½	.16½
19,500 cu.yd. loam surfacing	.85	.30	.30
200 cu.yd. lining	2.50	2.75	2.75
1,100 sq.ft. driving steel sheet-piling	.50	1.25	1.00
4,100 sq.ft. furnishing and driving steel sheet-piling	2.45	2.75	2.50
6,500 cu.yd. 2nd class concrete	12.00	13.25	13.00
1,680 cu.yd. 1st class reinforced concrete	25.00	24.00	24.00
102 cu.yd. 2nd class reinforced concrete	15.00	19.00	20.00
10,750 cu.yd. wash wall	3.60	3.50	3.50
260 cu.yd. cobblestone paving, grouted	1.50	1.60	1.60
385 cu.yd. 2nd class riprap	4.00	4.00	4.00
20 lin.ft. 6-in. vitrified pipe, laid	.40	.40	.40
40 lin.ft. 8-in. vitrified pipe, laid	.70	.70	.70
140 lin.ft. wrought-iron pipe-railing	4.00	4.00	4.00
5,200 lb. furnishing and placing metal reinforcement	.08	.09	.09
48,000 lb. placing metal reinforcement	.03	.03	.03
Placing arch ribs in foot-bridges (lump sum)	2,000.00	3,000.00	2,000.00
650 lb. metal duct	.20	.20	.20
6,980 sq.ft. Portland cement sidewalks	.30	.30	.35
11,360 sq.yd. gravel walks	.30	.40	.40
210 sq.yd. relaying sidewalks	.50	.75	.75
2,700 sq.yd. asphalt pavement	4.75	4.75	4.75
17,530 sq.yd. macadam pavement	1.60	1.80	1.80
5,950 sq.yd. macadam resurfacing	.60	1.50	1.50
7,700 lin.ft. temporary wooden fence	.10	.10	.10
1,870 lin.ft. chain fence	.50	.75	.75
925 lin.ft. concrete balustrade on foot-bridges	8.00	5.00	5.00
950 sq.yd. waterproofing, one-ply	.40	.50	.50
630 sq.yd. waterproofing, two-ply	.60	.70	.70
60 acres seeding	40.00	75.00	75.00
Installing operating machinery in relief culvert (lump sum)	120.00	120.00	120.00
16 setting snubbing posts	2.50	2.75	2.75
Coffer-dams, pumps, bailing and draining (lump sum)	8,000.00	11,500.00	8,500.00
Extended totals	$428,860	$439,371	$441,237

SEWER—LONG ISLAND CITY, N. Y.

Bids were received by M. E. Connolly, president of Queens Boro., constructing combined sewer and appurtenances in Genessee St. from Liberty Ave. to North Conduit Ave. and storm water sewer in Genessee St. from North Conduit to South Conduit Aves., 4th Ward, from (A) James Ferry & Son, 97 Louisiana Ave., Brooklyn; (B) Aldene Contg. Co., 2622 Bath Ave., New York City; (C) John H. Duncan, Inc.; (D) J. L. Siegretto & Co., $463,000; (E) U. S. Drainage & Irrigation Co., 17 Battery Pl., New York City, $477,000; (F) Rodgers & Hagerty, Inc., 103 East 125th St., New York City, $485,000. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
2,129 lin.ft., 8 ft., 3 in. x 8 ft., 6 in. double barrel reinforced concrete sewer	$107.00	$150.00	$140.00
295 lin.ft. 8 x 8 ft. double barrel reinforced concrete siphon sewer	150.00	175.00	165.00
640 lin.ft. 24 in. c.-i. pipe siphon	7.50	300.00	9.00
11 manholes (complete)	100.00	100.00	125.00
1 cleaning shaft (complete)	200.00	500.00	200.00
4 basin manholes (complete)	150.00	100.00	200.00
7 inlets (complete)	150.00	30.00	150.00
50 lin.ft. 12-in. vitrified pipe basin connections	1.75	1.00	3.00
100 lin.ft. 10-in. vitrified pipe basin connections	1.75	1.00	3.00
144 6-in. spurs (24 in. long) on concrete sewer	1.00	.50	2.00
1 grit chamber (complete)	15,000.00	4,000.00	16,000.00
1 up-stream drop chamber (complete)	7,000.00	4,000.00	4,478.00
1 down-stream drop chamber (complete)	6,000.00	4,000.00	4,733.00
1 transition section (complete)	11,000.00	4,000.00	10,689.00
Underpinning northerly 48-in. c.-i. pipe watermain (complete) as shown on plan	1,300.00	700.00	1,244.00
Underpinning masonry aqueduct and southerly 48-in. c.-i. pipe water main (complete), as shown on plan	17,000.00	1,000.00	20,000.00
Underpinning 72-in. steel pipe water main (complete), as shown on plan	2,000.00	1,000.00	1,636.00
18,400 cu. yd. earth fill for sewer embankment, as shown on plan	.40	.01	.50
1,200 cu.yd. cinder fill for sewer embankment, as shown on plan	1.00	.01	1.00
19.5 lin.ft. breast wall (8 ft., 8 in. high)	15.00	.01	12.00
180 lin.ft. galvanized pipe rail	5.00	.01	5.00
3,200 lin.ft. wooden fence	.50	.01	.70
8,000 lin.ft. piling	.30	.01	.70
40,000 ft., B.M. timber for foundation	75.00	90.00	60.00
83,000 ft., B.M. timber for sheeting and bracing	35.00	.01	60.00
1,500 lb. structural steel (bolts, nuts and washers)	.10	.05	.10
25 cu.yd. Class "A" concrete (exclusive of concrete shown on plan)	15.00	10.00	15.00
2,000 lb. reinforcing steel (exclusive of steel shown on plan)	.10	.05	.10
20 cu.yd. rock excavation	5.00	10.00	1.00
530 sq.yd. of cobble stone gutter (cement grouted joints)	1.50	1.00	.50
Underpinning elevated railroad column, together with permanent foundation	3,000.00	.01	4,291.00
16 lin.ft. 6-in. virtrified pipe house connection drains	2.00	.01	2.00
Extended totals	$363,820	$421,000	$447,000

Miscellaneous (Continued)

Wharf—Esquimalt, B. C.—Until Jan. 24, by Dept. Pub. Wks., Ottawa, Ont., building dockyard wharf here. R. C. Desrochers, secy.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Coal Trestle—Binghamton, N. Y.—L. F. Pilcher, state archt., Albany, let contract building steel coal trestle at State Hospital here, to Lehigh Structural Steel Co., foot of Allen St., Allentown, Pa. About $24,284. Noted Jan. 9.

Structural Steel, New York, N. Y.—Pub. Serv. Comn., 49 Lafayette St., received lowest 3 bids Jan. 7, supplying and erecting structural steel for Sect. 6, Route 8, part of 14th St.—Eastern Dist. Rapid Transit R. R., from Terry & Tench, Grand Central Terminal, $1,712,780; Rodgers & Hagerty, 103 East 126th St., $1,728,859; Snare & Triest, 8 West 40th St., $1,742,000. Noted Jan. 2.

Contracts are being let at the rate of more than $1,000,000 a day. In the first nine days of this year the amount of new work reached $12,692,000 divided thus:

Industrial Work	$4,610,000
Federal Government	3,032,000
Buildings	1,390,000
Excavation and Dredging	797,000
Streets and Roads	757,000
Sewers	414,000
Water-Works	324,000
Bridges	267,000
Railways	145,000
Miscellaneous	956,000

So much for jobs already placed and those being placed; how about projects that have left the possible stage and entered upon the certain? During the first nine days of January, bids were invited on 180 jobs; during the first 16 days, on 245 jobs.

To keep posted, read this section.

★Coal and Ash Handling Equipment—Wards Island, N. Y.—L. F. Pilcher, state archt., Albany, let contract installing coal and ash handling equipment at Manhattan State Hospital, here, to Gifford Wood Co., Hudson. About $45,950. Plans include conveyor, coal hoppers, apron feeder, coal crusher, etc.

★Pile Breakwater—Ocean City, N. J.—City let contract building pile breakwater on ocean front, in southern section of city, to J. Marts Lumber Co., 9th and Haven Sts., $16,640.

★Elevated Railways—Philadelphia, Pa.—Dept. of City Transit, 754 Bourse Bldg., let contract furnishing and placing steel frame work and railings, concrete floors and parapets, side enclosures, etc., for 4 station platforms with connecting passages between platforms and station buildings of Frankford Elevated Ry., at Orthodox-Margaret Sts. and Ruan-Church Sts., together with 1 overpassage bridge and stairs, to W. Steele & Sons, 16th and Arch Sts., $98. Noted Jan. 2.

★Pier — Seattle, Wash. — Seattle Port Comn. let contract for substructure on Smiths Cove Pier to Harrington Peter Co., Seattle, $617,725; rock rip rap work to Independent Asphalt Co., 2601 Railroad Ave., $113,525. Work involves 40 tons dry rock. Noted Oct. 31.

Bulkheads—Warrenton, Ore.—City received bids building bulkheads on Skipanon Waterway involving 6600 lin.ft. 2 in., 1350 lin.ft. 3 in. pile bulkheads, 135,000 lin.ft. piling, 680 N. B. N. lumber and 47,000 lbs. iron, etc., from A. Guthrie Co., Sherlock Bldg., Portland, $86,940; McEachern Co., Kellogg St., Portland, $96,240; R. Wakefield, Warrenton, $98,610. Noted Jan. 2.

★Retaining Wall—Halifax, N. S.—See "Excavation & Dredging."

★Jetty—New Westminster, B. C.—Dept. of Pub. Wks., Ottawa, Ont., let contract repairing jetty, to Hodgson & King, 626 Pender St., W., Vancouver. About $1,000,000. Noted Nov. 7.

STRUCTURAL STEEL—NEW YORK, N. Y.

Bids were received by Public Service Commission, 49 Lafayette St., Jan. 7th, for supply and erection of structural steel for Sect. 6, Route 8, part of 14th St.—Eastern District Rapid Transit R.R., from (A) Terry & Tench Co., Grand Central Terminal; (B) Rodgers & Hagerty, 103 East 125th St.; (C) Snare & Triest Co., 8 West 40th St.; (D) Post & McCord, 101 Park Ave., $1,778,042; (E) Underpinning & Foundation Co., 29 East Bway., $1,786,120; (F) Bethlehem Steel Bridge Corp., 111 Bway., $1,817,835; (G) McClintic-Marshall Co. 50 Church St., $1,903,719. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
15,800 tons riveted steel painted and erected	$106.00	$106.60	$107.50
280 tons steel beams and shapes painted and erected	106.00	106.60	107.50
12 tons steel beams and shapes furnished and delivered	100.00	92.60	95.00
85 tons steel rods and bars furnished and delivered	100.00	72.00	80.00
10 tons cast iron column fenders in place	120.00	140.00	135.00
1,350 lin.ft. electric (overhead trolley) R.Rs.	2.00	4.00	2.80
7 electric ground connections to R.R. structure	100.00	100.00	80.00
Extended totals	$1,718,780	$1,728,859	$1,742,230

FILTRATION PLANT—WYANDOTTE, MICH.

Bids were received by City, Dec. 30, constructing filter plant with 6,000,000 gal. daily capacity to include filtered water reservoir, etc. from (A) Pitt Constr. Co., Fulton Bldg., Pittsburgh, Pa. (awarded contract); (B) Rice Constr. Co., Wyandotte; (C) The Bentley & Sons Co., 201-31 Belmont Ave., Cleveland, O.; (D) Minnick-Gibbons Co., 5309 Prospect Ave., Cleveland, O., $258,400, $252,408, $240,608; (E) Walbridge-Aldinger Co., 2356 Penobscot Bldg., Detroit, Mich., $263,265, $254,915; (F) Kelley-Demarest Co., 418 American Trust Bldg., Cleveland, O., $278,334, $269,334, $261,634. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
6,250 cu.yd. excavation and backfilling	$7.75	$1.25	$2.25
3,300 cu.yd. embankments	.50	.50	1.25
10,000 lin.ft. concrete piles	2.25	2.05	2.35
820 cu.yd. concrete in foundation floors	14.00	16.00	13.50
1,720 cu.yd. concrete in walls, beams, columns	17.00	25.00	24.50
320 cu.yd. concrete in filter boxes and tanks	19.00	25.00	22.50
10 bbl. additional Portland cement	3.00	3.00	3.30
26,000 lb. steel reinforcement	.0405	.05	0.055
Filtered water reservoir	17,500.00	24,000.00	27,900.00
100 tons c.-i. bell and spigot pipe	75.00	76.00	76.00
23 tons c.-i. bell and spigot specials	160.00	175.50	158.00
10 tons c.-i. flanged specials	250.00	195.50	208.00
Filter house gate valves (lump sum)	5,500.00	4,975.00	5,210.00
Other gate valves (lump sum)	2,300.00	1,850.00	1,760.00
Sluice gates (lump sum)	3,100.00	2,450.00	2,290.00
Venturi meters (lump sum)	3,500.00	2,925.00	2,975.00
Float valve (lump sum)	360.00	300.00	300.00
34 tons filter and head house pipe	50.00	67.00	40.00
99 tons outside piping	25.00	35.00	15.00
Filter house valves (lump sum)	500.00	440.00	270.00
Outside valves (lump sum)	400.00	30.00	100.00
Sluice gates (lump sum)	300.00	110.00	100.00
Venturi meters (lump sum)	300.00	90.00	270.00
3,000 lb. miscellaneous cast iron	.15	.20	.105
500 lb. wrought iron and steel	.15	.30	.12
Screens (lump sum)	100.00	90.00	60.00
100 lin.ft. iron pipe rail	2.00	2.00	2.00
6M.ft.b.m. miscellaneous wood work	100.00	150.00	300.00
730 sq.yd. proved walks and drives	2.25	3.00	4.50
Superstructure for filter and head house (lump sum)	17,000.00	26,000.00	21,000.00
Addition to existing pumping station (lump sum)	2,000.00	3,600.00	3,100.00
Steam heating (lump sum)	4,000.00	5,000.00	6,000.00
Plumbing and gas fitting (lump sum)	1,000.00	2,000.00	2,650.00
Electric wiring for light and power (lump sum)	1,500.00	2,000.00	2,060.00
Freight elevator (lump sum)	3,000.00	3,500.00	3,800.00
6 filter manifold systems	1,200.00	950.00	1,035.00
18 wash water troughs	250.00	265.00	300.00
6 filter rate controllers	1,200.00	820.00	550.00
6 filter operating tables	600.00	800.00	650.00
Miscellaneous gauges (lump sum)	800.00	280.00	390.00
117 cu.yd. filter gravel	10.00	12.80	9.50
196 cu.yd. filter sand	10.00	12.25	11.50
Coagulant stirring machinery (lump sum)	1,200.00	700.00	680.00
Miscellaneous wrought iron pipes and fittings (lump sum)	500.00	240.00	690.00
Orifice boxes and connections (lump sum)	350.00	360.00	475.00
Wash water tank (lump sum)	6,000.00	*7,000.00	6,800.00
Filtered water reservoir (alternate) (lump sum)	16,000.00	20,000.00	21,800.00
11,000 lin.ft. wood piles (alternate)	.75	1.10	1.25
Extended totals with concrete piles and item 9	$211,235	$242,496	$249,355
Extended totals with concrete piles and alternate reservoir	$209,735	$238,496	$243,555
Extended totals with wood piles and alternate reservoir	*$195,485	$230,096	$233,585

*Indicates award of contract.